XC
0497
#43
2005

COMPOSITAE NEWSLETTER

Number 43 15 December 2005

Scientific Editor: BERTIL NORDENSTAM
Technical Editor: GUNNEL WIRÉNIUS NOHLIN
Published and distributed by The Swedish Museum of Natural History,
Department of Phanerogamic Botany,
P.O. Box 50007, SE-104 05 Stockholm, Sweden

ISSN 0284-8422

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Catalogue of Asteraceae of Chacoan Plain, Argentina

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CATALOGUE OF ASTERACEAE OF CHACOAN PLAIN, ARGENTINA

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Abstract

The present catalogue documents 325 species of Asteraceae known to occur in the Chacoan plain of Argentina. Twelve taxa are here first recorded for this area. From the total of the Chacoan species of Asteraceae, ca. 120 have been employed for economic uses.

The Asteraceae of the Chacoan plain of Argentina are presented following a catalogue format, including synonyms, infraspecific taxa, iconography references, vernacular names, habit, flowering period, phytogeographical and political distribution, uses, and vouchers for each taxa. Keys to tribes, genera, species and varieties or subspecies are also provided.

KEY WORDS: Asteraceae, Argentina, Chacoan plain, Catalogue

ACKNOWLEDGEMENTS

We appreciate the helpful contributions of Bertil Nordenstam, and the valuable comments of John Pruski on the first version of the manuscript. We are grateful for the cooperation of the curators of herbaria mentioned. This study was supported by the Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina.

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Introduction

The present catalogue documents 325 species of Asteraceae known to occur in the Chacoan plain of Argentina. Twelve taxa not published in the regional floristic treatments of

Asteraceae (Cabrera, 1963, 1971b, 1974, 1978), *Flora Fanerogámica Argentina* (Ariza Espinar & Delucchi, 1998; Ariza Espinar & Urtubey, 1998; Ariza Espinar, 1997; Bártoli & Tortosa, 2003; Cabrera & Freire, 1997; Cabrera, Freire & Ariza Espinar, 1999; Cerana, 1997; Freire, 1995, 1996; Giuliano, 2000; Katinas, 1995, 1996; Ariza Espinar & Petenatti, 1997; Sancho, 1996; Sancho & Ariza Espinar, 2003;Tortosa & Bártoli, 2003; Urtubey, 1996), and *Catálogo de las Plantas Vasculares de la República Argentina II* (Zuloaga & Morrone, eds. 1999) are here first recorded for this area. From the total of the Chacoan species of Asteraceae, ca. 120 have been employed for economic uses, including medicinal, edible, or ornamental.

The area

The Chacoan plain ("Llanura chaqueña"), also called Chacoan Park ("Parque chaqueño") (Ragonese & Castiglioni, 1970), constitutes a natural area (Morello, 1967; Moreno & Adámoli, 1974), and belongs to Chacoan province of the Chacoan domain within the Neotropical region (Cabrera & Willink, 1973). It occupies most of the Chacoan phytogeographical province with the exception of the slopes of the Subandean and Pampean mountain ranges in the western side of the area. Chacoan plain extends in twelve Argentinian provinces, i.e.southeastern Jujuy, eastern Salta, Formosa, Chaco, Santiago del Estero, eastern Tucumán, eastern Catamarca, eastern La Rioja, northeastern San Luis, northern and center Córdoba, northern Santa Fe and western Corrientes (Figure 1). This big plain slightly descends in a northeastern-southwestern and northern-southern direction. The climate is humid in the east and becomes somewhat arid towards the west where the rainfall decreases from 1000 to 500 mm/year. Therefore, in the eastern side of the area lagoons and streams are common whereas in the western side salines are abundant. The typical vegetation is the xerophilous evergreen forest, with grasses, cacti, and terrestrial bromeliads. There are also palm groves, savannas, and halophilous shrubby steppes (Cabrera, 1970). The Chacoan plain constitutes one of the few areas of the world where the tropical and the temperate areas are continuous and have not a desert between them. It is probably the only place in the world where the tropical-temperate thermic gradient, and the transition from tropical to temperate soils can be observed along a wide range of homogeneous bands of rains, topography, and continentality (Morello, 1967).

The vegetation

According to Cabrera's classification (1971a, 1976), the area under study comprises three phytogeographical districts: a) Chacoan Oriental, b) Chacoan Occidental, and c) Savannas.

The Chacoan Oriental district ranges from eastern Formosa and Chaco, northern Santa Fe, and northwestern Corrientes. It is a hot and wet plain crossed by numerous rivers and streams. The climax community is represented by forests of "quebracho colorado"

(*Schinopsis balansae*), the forestal economically most important species in Argentina, and forests of "quebracho blanco" (*Aspidosperma quebracho-blanco*). There are other representative arborescent species (e.g., *Astronium balansae*, *Caesalpinia paraguariensis*, *Gleditsia amorphoides*, *Patagonula americana*, *Ruprechtia laxiflora*, *Tabebuia impetiginosa*), shrubs (e.g., *Acacia praecox*, *Prosopis ruscifolia*), cacti (e.g., *Harrisia bonplandii*, *Monvillea cavendischii*, *Opuntia anacantha* var. *retrorsa*), grasses, and spiny bromeliads (*Aechmea disticachantha*, *Bromelia serra*, *Dyckia ferox*). There are also many edaphic communities of palms (*Copernicia alba*). Due to the inclination of the area, the water courses in some places become irregular and originate wetlands (with e.g., *Eichhornia* spp., *Pontederia* spp.) and swamps with marshy vegetation (e.g., *Cyperus giganteus*, *Panicum prionitis*, *Paspalum intermedium*, *Sorghastrum setosum*). The species of Asteraceae are found in diverse habitats, for example *Eupatorium christieanum*, *Grindelia scorzonerifolia*, and *Vernonia rubricaulis* inhabit forests of "algarrobo negro" (*Prosopis nigra*) and "churqui" (*Acacia caven*), *Eupatorium christieanum* and *Grindelia tehuelches* inhabit the "caranday" palm groves (*Copernicia alba*) and forests of "algarrobo blanco" (*Prosopis alba*), also, the "aliso" or "pájaro bobo" (*Tessaria integrifolia*) together with *Tessaria dodoneifolia* and *Baccharis salicifolia* are frequent in river banks.

The Chacoan Occidental district ranges western Formosa and Chaco, Santiago del Estero, and eastern Jujuy, Salta, Tucumán, Catamarca, La Rioja, northwestern Córdoba, and northern San Luis. The western limit of this district reaches 500 m elevation, beyond this altitude the mountain ranges are found. Comparing to the Oriental district, the Chacoan Occidental district is drier being the evapo-transpiration the highest in the country (Ragonese & Castiglioni, 1970). The plain is covered by forests spotted with steppes or "pampas", spiny shrubs, and cacti. The climax community is the forest of "quebracho colorado santiagueño" (*Schinopsis lorentzii*), "quebracho blanco" (*Aspidosperma quebracho-blanco*), and "palo santo" (*Bulnesia sarmientoi*). There are also other significant tree species (e.g., *Caesalpinia paraguariensis*, *Cercidium praecox*, *Ceiba speciosa*, *Prosopis kuntzei*, *Ziziphus mistol*), shrubs (e.g., *Acacia caven*, *A. furcatispina*, *Capparis tweediana*), cacti (e.g., *Opuntia quimilo*, *Pereskia sacharosa*, *Stetsonia coryne*), grasses (*Digitaria sanguinalis*, *Gouinia latifolia*, *Setaria parviflora*), and terrestrial bromeliads (*Bromelia hieronymi*, *B. serra*, *B. urbaniana*). Communities of palms (*Trithrinax biflabellata*), "water hyacinth" (*Eichhornia* spp.), and marshes with *Panicum prionitis* , *Scirpus californicus* are also found. Salt mines are common in this area which are covered by an halophilous vegetation (*Heterostachys ritteriana*, *Allenrolfea patagonica*). Among the typical Asteraceae, *Holocheilus hieracioides* and *Trixis cacalioides* inhabit the "quebrachales" (forest of "quebracho"), *Cyclolepis genistoides* grows among the cacti, and *Tessaria integrifolia* grows associated with *Salix humboldtiana* (Salicaceae) in sandy river banks.

The Savannas district is a narrow area that occupies northern Santa Fé between the Oriental and Occidental districts. The climax community is the savanna of *Elionorus muticus* together with grasses (e.g., *Bothriochloa barbinodis*, *Leptocoryphium lanatum*, *Schizachyrium*

condensatum, *Sorghastrum pellitum*), herbaceous dictotyledons (e.g., *Desmanthus virgatus*, *Glandularia peruviana*), and isolated trees (*Geoffroea decorticans*, *Prosopis affinis*, *P. nigra*). Other communities of this district are the savannas of *Leptochloa chloridiformis* on salty soils and *Spartina argentinensis* in wetlands. Among the Asteraceae, *Aspilia montevidensis* var. *setosa*, *Baccharis artemisioides*, *B. articulata*, *B. coridifolia*, *Pterocaulon cordobense*, and *Vernonia incana* can be found.

Biodiversity and conservation

Given the topographic and climatic characteristics of the Chacoan plain, this is not considered as one of the richest areas of Argentina regarding the number of species or the endemic taxa. There are some genera almost exclusive of the area (that, for example, extend to the provinces of San Juan and Mendoza) specially in the Occidental district (Ragonese & Castiglioni, 1970), such as *Halosicyos* (Cucurbitaceae), *Mimozyganthus* (Fabaceae), *Quiabentia* (Cactaceae), *Stenodrepanum* (Fabaceae). The endemic species and infraspecific taxa belong to different families (Zuloaga and Morrone eds. 1999): Amaranthaceae (*Alternanthera collina*), Amaryllidaceae (*Habranthus chacoënsis*), Aristolochiaceae (*Aristolochia schulzii*), Asclepiadaceae (*Morrenia schulziana*, *Oxypetalum lynchianum*), Asteraceae (*Eupatorium lanigerum* var. *minus*, *E. mikaniifolium*, *E. militare*, *Grindelia cabrerae* var. *cabrerae*, *G. chacoensis*, *G. ragonesei*, *Hyaloseris andrade-limae*, *Picrosia cabreriana*, *Vernonia chaquensis*, *V. schulziana*), Cactaceae (*Gymnocalycium ragonesei*, *Opuntia colubrina*, *Quiabentia verticillata*), Caricaceae (*Jacaratia hassleriana*), Convolvulaceae (*Convolvulus schulzei*, *Ipomoea stuckertii*), Cucurbitaceae (*Apodanthera anatuyana*, *Melothria schulziana*), Cuscutaceae (*Cuscuta cristata* var. *chacoënsis*, *C. xanthochortos* var. *longibracteata*), Euphorbiaceae (*Argythamnia salina*, *Jatropha grossidentata*, *J. matacensis*), Fabaceae (*Acacia monacantha* f. *schulziana*, *Aeschynomene parviflora*, *Caesalpinia stuckertii*, *Centrosema kermesi*, *Desmodium intermedium*, *Galactia texana* var. *degasperii*, *Prosopis nigra* var. *longispina*, *Senna chacoënsis*, *S. choroclada*), Malvaceae (*Wissadula densiflora* var. *schulzii*), Orchidaceae (*Eltroplectris lurida*, *Pelexia paludosa*), Piperaceae (*Peperomia comarapana* f. *pubescens*), Portulacaceae (*Portulaca ragonesei*), Poaceae (*Andropogon coloratus*, *Aristida venustula* var. *scabrifolia*, *Digitaria chacoënsis*, *Eriochloa nana*, *Monanthochloe acerosa*, *Setaria nicorae*, *Zizaniopsis villanensis*), Solanaceae (*Lycium athium*, *Nicotiana paa*, *Solanum comptum*), Verbenaceae (*Glandularia nana*), Zygophyllaceae (*Bulnesia sarmientoi*).

The human activity, mainly forestal exploitation, cattle, and agriculture, has caused profound changes in the vegetation of extensive areas of the Chacoan plain. The most exploited species is the "quebracho" (*Schinopsis* spp.) which have a slow growing period. *Schinopsis* is very valuable because of its tannins and hard wood (the vernacular name "quebracho" is from "quiebra", to break, "hacha", the ax). Other exploited species are "quebracho blanco" (*Aspidosperma quebracho-blanco*) for the coal industry. Cattle, mainly

cows, has affected the herbaceous layer of the area with the consequential invasion of other species such as spiny shrubs and terrestrial bromeliads. Usually the fields are burnt at the end of the winter to allow the growing of tender sprouts of grass for the grazing of cattle. Finally, open, extensive areas are cleared and used for crops such as cotton, tobacco, corn, sorghum, sunflower, and sugar cane (Ragonese & Castiglioni, 1970; Cabrera, 1971a). According to Neumann (1999) the extension of the natural forests in the area has decreased dramatically from 1935 to 1998. As an example, the natural vegetation cover decreased from 107.000 km^2 to 31.346 km^2 in Santiago del Estero province, and from 82.000 km^2 to 21.810 km^2 in Chaco province. All these reasons justify extensively floristic studies in the area.

Format

The Asteraceae of the Chacoan plain of Argentina are presented following a catalogue format, including synonyms, infraspecific taxa, iconography references, vernacular names, habit, flowering period, phytogeographical and political distribution, uses, and vouchers for each taxa. Keys to tribes, genera, species and varieties or subspecies, as well as illustrations of the corollas and pappus types of the Chacoan species (Figs. 2, 3) are also provided.

The Asteraceae of the Chacoan plain of Argentina, are presented according to taxonomic system of A.L. Cabrera (1961) who follows the tribal arrangement of Bentham (1873). Author abbreviations for genera and species follow Brummitt & Powell (1992). Tribes and genera were arranged alphabetically, as well as species, subspecies and varieties.

Accepted genera appear in boldface type, together with their author(s) and number of species in the Chacoan plain of Argentina.

Accepted species are presented in boldface types and synonyms appears in italics following the accepted name. An index to all synonyms is provided.

Iconography references. Refers to literature where an illustration can be found.

Vernacular. Vernacular names are given for each valid species, whenever that information was available.

Habit. The habit (including life cycle) is detailed under each valid species, i.e. shrub, subshrub, annual or perennial herb.

Flowering period. Flowering period has been taken from the herbarium specimens consulted and from the literature.

Status. The species are regarded as native, introduced (adventive), or endemic to Chacoan plain of Argentina.

Distribution. The distribution in Argentinian political provinces is compiled from the literature and from herbarium vouchers. The provinces are listed in alphabetic order and the following abbreviations are used:

Catamarca = CA, Córdoba = CO, Corrientes = COR, Chaco = CH, Formosa = FO, Jujuy = JU, La Rioja = LR, Salta = SA, Santiago del Estero = SE, Santa Fe = SF, San Luis = SL, Tucumán = TU. Presence of the taxon in each province is followed by the political department

between parentheses. The political departments considered in each political province are listed below, taking in account only localities lower than 500 m elevation.

CATAMARCA: Ancasti, SE Capayán, El Alto, La Paz, Santa Rosa.
CHACO: all the departments.
CÓRDOBA: Capital, Colón, Cruz del Eje, Minas, Pocho, Río Primero, Río Seco, San Alberto, Santa María, Sobremonte, Totoral, Tulumba.
CORRIENTES: Bella Vista, Capital, Empedrado, N Esquina, Goya, Lavalle, Mburucuyá, Saladas, San Cosme, W San Luis del Palmar, San Roque.
FORMOSA: all the departments.
JUJUY: Santa Bárbara, E San Pedro.
LA RIOJA: E Capital, E General Belgrano, E General Ocampo, E General San Martín, E Gobernador Gordillo.
SALTA: Anta, E Metán, E General San Martín, E Orán, Rivadavia, E Rosario de la Frontera.
SAN LUIS: E Ayacucho, Junín, NW General Pedernera.
SANTA FÉ: N Castellanos, General Obligado, N Las Colonias, 9 de Julio, San Cristóbal, N and W San Javier, N and Central San Justo, Vera.
SANTIAGO DEL ESTERO: all the departments.
TUCUMÁN: E Burruyacú, E Calingasta, E Cruz Alta, E Graneros, E Leales, E Río Chico.

Habitat. Ecology for each species is followed by phytogeographical district cited between parentheses, using the following abbreviations: Oriental = ORI, Occidental = OCC, Savannas = SAV.

Uses. Uses are given for each species, whenever that information was available in the relevant literature.

Specimens Examined. One representative specimen is cited for each species (and for each province of the Chacoan plain where the species occurs). The specimens are cited using the collector's name and collection number, followed by the herbarium acronym (Holmgren et al., 1990).

Authors

Anthemideae: Delucchi, G.
Astereae (excluding *Baccharis*): Sancho, G.; *Baccharis*: Giuliano, D. A.
Cardueae: Delucchi, G.
Eupatorieae: Freire, S. E.
Helenieae: Monti, C. & Gutiérrez, D. G.
Heliantheae: Sáenz, A. A. & Gutiérrez, D. G.
Inuleae (excluding *Gamochaeta*): Bayón, N. D.; *Gamochaeta*: Iharlegui, L.
Lactuceae: Urtubey, E.
Mutisieae (excluding *Barnadesia*): Katinas, L.; *Barnadesia*: Urtubey, E.
Senecioneae (excluding *Microliabum*): Freire, S. E.; *Microliabum* (Senecioneae): Gutiérrez, D. G.
Vernonieae: Bayón, N. D.

KEY TO THE ARGENTINIAN CHACOAN PLAIN TRIBES OF ASTERACEAE

1. Capitula homogamous (all florets bisexual, sometimes all florets pistillate in gyno-dioecious species) with florets isomorphic (corollas tubular or pseudoligulate deeply 5-lobed, ligulate or bilabiate) or dimorphic (disc florets with corollas tubular deeply 5-lobed or bilabiate). Sometimes capitula heterogamous (marginal florets pistillate or neuter) with florets dimorphic (marginal or disc florets with corollas bilabiate) or trimorphic 2
- Capitula heterogamous (marginal florets pistillate or neutral and disc florets bisexual or staminate) with florets dimorphic (disc florets 3-5-lobed, rarely deeply 4-lobed). Sometimes capitula homogamous (all florets bisexual), florets isomorphic (corollas tubular 5-lobed) or capitula homogamous dioecious (female capitula: florets with corollas filiform, male capitula: florets with corollas tubular 5-lobed 3
2. Plants with latex. Capitula homogamous, florets isomorphic, corollas ligulate 5-lobed, usually yellow ..... 8. *Lactuceae*
- Plants without latex. Corollas usually blue, violet, purple, pinkish or white 4
3. Florets isomorphic, corollas usually white, pinkish, lilac, or violet. Style branches long, linear or claviform, shortly papillose, rarely pilose ..... 4. *Eupatorieae*
- Florets dimorphic or isomorphic, bisexual usually with yellow corollas. Style branches short or long, apically pilose (sometimes style branches undivided in staminate florets) 5
4. Florets isomorphic (tubular, bilabiate, or ligulate), dimorphic (marginal florets with corolla bilabiate or ligulate), or trimorphic (marginal florets with corolla filiform and bilabiate). Style usually shortly bilobed, style branches rounded, glabrous or papillose or truncate with a crown of hairs ..... 9. *Mutisieae*
- Florets isomorphic (tubular or pseudoligulate) or dimorphic (marginal florets pistillate with corollas ligulate or pseudoligulate). Style branches with other characteristics 6
5. Pappus commonly of bristles (occasionally basally widened), sometimes with an outer row of scales, rarely coroniform or absent 7
- Pappus of scales or bristle-like awns 8
6. Style with dorsally papillose-pilose, sometimes connate style branches and with a ring of hairs on a thickening beneath the branches. Plants spiny ..... 3. *Cardueae*
- Style dorsally pilose along the branches as well as on the shaft below ..... 11. *Vernonieae*
7. Involucre 1-seriate (sometimes with subinvolucral bracts) or phyllaries in several rows (e.g. Chacoan genus *Microliabum* with pappus double) ..... 10. *Senecioneae*
- Involucre 2- or more-seriate. Pappus single 9
8. Pappus absent or reduced to a crown of short scales. Phyllaries with differentiated margins ..... 1. *Anthemideae*
- Pappus present. Phyllaries with margins not differentiated 10
9. Anthers obtuse ..... 2. *Astereae*
- Anthers sagittate ..... 7. *Inuleae*
10. Receptacle epaleate (shortly fimbriate in *Thymophylla* or setiferous in *Gaillardia*). Pappus usually of scales ..... 5. *Helenieae*
- Receptacle paleate, rarely epaleate (e.g. Chacoan genus *Synedrellopsis* with pappus of 2 short and stout awns) ..... 6. *Heliantheae*

1. Tribe **ANTHEMIDEAE**, 6 genera, 8 species.

1. Receptacle paleate ..... 1. *Anthemis*
-. Receptacle epaleate 2
2. Florets bisexual, tetramerous 3
-. Florets bisexual, pentamerous 4
3. Capitula long-pedunculate ..... 3. *Cotula*
-. Capitula sessile ..... 5. *Soliva*
4. Marginal florets bilabiate ..... 4. *Plagiocheilus*
-. Marginal florets ligulate or filiform 5

5. Capitulescences racemiform or paniculiform.....2. *Artemisia*
-. Capitula solitary or capitulescences corymbiform.....6. *Tanacetum*

1. **ANTHEMIS** L., 1 species.

1. **Anthemis cotula** L.
Syn.: *Chamaemelum cotula* (L.) All. - *Maruta cotula* (L.) DC.
Iconography: Cabrera: 160, fig. 148. 1971b.
Vernacular: "Manzanilla silvestre", "m. cimarrona".
Habit: Annual herb.
Flowering period: December.
Status: Adventive.
Distribution: CH (1º Mayo, San Fernando), FO (Pilcomayo), TU (Leales).
Habitat: Ruderal weed, railroads, roads (OCC, ORI),
Uses: Antidiarrhoeal, antihysteric, malaria, antimicrobic, antirheumatic, antispasmodic, dysentery, cicatrizant, febrifugal, antihelmintic, diuretic, earache, emollient, gout, headache, heart, hepatic, intermittent fever, neuralgia, stomach pain, insecticidal (Freire & Urtubey, 2000b)
Specimens Examined: CH (Schulz 99, LP), FO (Morel 6688,CTES), TU (Venturi 586, SI).
Obs.: Toxic for cattle (Freire et al. 2005).

2. **ARTEMISIA** L., 1 species.

1. **Artemisia verlotiorum** Lamott.
Iconography: Cabrera: 278, fig. 85. 1963.
Vernacular: "Ajenjo silvestre", "yuyo de San Vicente".
Habitat: Annual herb.
Flowering period: December-January.
Status: Adventive.
Distribution: CH (1 de Mayo).
Habitat: Ruderal weed, railroads, roads (ORI).
Uses: Abortifacient, anticatarrheal, antihypertensive, antirheumatic, antiseptic, depurative, diuretic, emmenagogue, sedative, vasotonic (Freire & Urtubey, 2000b).
Specimen Examined: CH (Schulz 14178, CTES).

3. **COTULA** L., 1 species.

1 . **Cotula australis** (Sieb.) Hook. f.
Syn.: *Anacyclus australis* Sieb. - *Lancisia australis* (Sieb.) Rydberg - *Soliva tenella* A. Cunn.- *Strongylosperma australe* (Sieb.) Less.
Iconography: Cabrera: 423, fig. 249. 1974.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: September-December.
Status: Adventive.
Distribution: CH (San Fernando), SE (Choya).
Habitat: Ruderal weed, railroads (OCC, ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 226,LP), SE (Ruíz Leal 1265, LP).

4. **PLAGIOCHEILUS** Arn. ex DC., 1 species.

1. **Plagiocheilus tanacetoides** Haenk. ex DC.
Iconography: Cabrera: 268, fig. 82. 1963.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: September-December.
Status: Native.
Distribution: CH (1 de Mayo, San Fernando), COR (Capital), FO (Laishi), SF (Gral. Obligado).
Habitat: Water banks (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 2677, CTES, COR (Burkart 6890, SI), FO (A. Flossdorf s/n, BAB 25198), SF (Venturi 9, SI).

5. **SOLIVA** Ruiz & Pav., 3 species.

1. Cypsela wings broadened, bilobed, and acuminate.....3. *Soliva sessilis*
-. Cypsela wings narrow, entire.....2
2. Leaf blades pubescent, tripinnatifid, secondary leaflets numerous, short, dentate or parted. Involucre 8-10 mm in diameter. Cypselas cuneate, cypsela wings lacerate, undulate below.....1. *Soliva anthemifolia*
-. Leaf blades glabrate, bipinnatifid, secondary leaflets linear, entire, or exceptionally

bifurcate. Involucre 10-15 mm in diameter. Cypselas oblong, cypsela wings slightly undulate, entire. ..... 2. *Soliva macrocephala*

1. **Soliva anthemifolia** (Juss.) R. Br. ex Less.
Syn.: *Gymnostyles anthemifolia* Juss.
Iconography: Cabrera: 427, fig. 251. 1974.
Vernacular: Unknown.
Habitat: Annual herb.
Flowering period: June-December.
Status: Native.
Distribution: CH (Bermejo, Gral. Donovan, 1º de Mayo, San Fernando), FO (Pilcomayo).
Habitat: Clay grounds, saline place, "algarrobos" forest (ORI).
Uses: Medicinal (Huang & Ling, 1996).
Specimens Examined: CH (Schulz 1049,LP), FO (Schinini et al. 31308, CTES).

2. **Soliva macrocephala** Cabrera
Iconography: Cabrera: 427, fig. 251. 1974.
Vernacular: Unknown.
Habit: Annuarl herb.
Flowering period: June-September.
Status: Native.
Distribution: CH (1º de Mayo).
Habitat: Moistly, fertil, saline areas. (ORI)
Uses: Unknown.
Specimens Examined: CH (Schulz 219, LP).

3. **Soliva sessilis** Ruiz & Pav.
Syn.: *Gymnostyles alata* Spreng.- *G. barclayana* (DC.) Steud.- *G. chilensis* Spreng.- *G. pterosperma* Juss. - *Soliva alata* (Spreng.) DC.- *S. barclayana* DC.- *S. microloma* Phil.- *S. neglecta* Cabrera - *S. pterosperma* (Juss.) Less.- *S. sessilis* Ruiz & Pav . var *barclayana* (DC.) Baker - *S. valdiviana* Phil.
Iconography: Cabrera: 459, fig. 192 (sub *Soliva pterosperma*). 1978.
Vernacular: Unknown.
Habitat: Annual herb.
Flowering period: September-December.
Status: Native.
Distribution: CH (1º de Mayo), COR (Capital), SF (San Justo).
Habitat: "Algarrobos" forest. (ORI, SAB).
Uses: Unknown.
Specimens Examined: CH (Schulz 10118, BAB), COR (Krapovickas 16096, BAA, BAB).

6. **TANACETUM** L., 1 species.

1 . **Tanacetum parthenium** (L.) Sch. Bip.
Syn.: *Chrysanthemum parthenium* (L.) Bernh. - *Leucanthemum parthenium* (L.) Gren. & Godr. - *Matricaria parthenium* L. - *Pyrethrum parthenium* (L.) Smith
Iconography: Cabrera: 164:, fig. 152. 1971b. (sub *Chrysanthemum parthenium*).
Vernacular. "Piretro de jardín".
Habitat: Annual herb.
Flowering period: November-July.
Status: Adventive.
Distribution: CO (Ischilín).
Habitat: Ruderal weed, roads, railroads (OCC).
Uses: Analgesic, antiseptic, anti-inflammatory, digestive, emetic, insecticidal (Freire & Urtubey, 2000b).
Specimens Examined: CO (Nicora 2257, BAA).

2. Tribe **ASTEREAE**, 13 genera, 63 species.

1. Pappus wanting (occasionally present, then coroniform, scarious)..... 4. *Egletes*
-. Pappus present.....2
2 Disk florets functionally male due to atrophy of ovary.....2. *Baccharis*
-. Disk florets perfect.....3
3. Capitula disciform. Corollas of marginal florets tubular-filiform or true rays (ligulate) with included or slightly exserted short limb.....4
-. Capitula radiate, sub-radiate or discoid (all corollas tubular).....7
4. Corollas of marginal florets tubular, phyllaries one-veined.....1. *Apopyros*
-. Corollas of marginal florets filiform, phyllaries several-veined.....5
5. Cypselae rostrate. Plants usually scapiform.....11. *Podocoma*
-. Cypselae erostrate. Plants usually caulescent.....6
6. Plants commonly woolly. Cypselas glandular, disk corollas pale-veined.....8. *Laennecia*
-. Plants not woolly. Cypselas eglandular, disk corollas orange-veined.....3. *Conyza*

7. Pappus composed by a few flat setae or deciduous scales.....6. *Grindelia*
-. Pappus composed by capillary or flat persistent bristles.....8
8. Lower leaves trifid.....9. *Microgynella*
-. Leaves not trifid.....9
9. Pappus 2-seriate, the external series very short.....7. *Hysterionica*
-. Pappus one- to several-seriate, the series equal or subequal in length.....10
10. Cypselas 2-3 (5)-ribbed.....11
-. Cypselas more than 8-ribbed.....12
11. Style branches apically lanceolate.....13. *Symphyotrichum*
-. Style branches apically deltoid.....5. *Erigeron*
12. Capitula numerous.....12. *Solidago*
-. Capitula solitary or few.....10. *Noticastrum*

1. **APOPYROS** G. L. Nesom, 1 species.

1. **Apopyros corymbosus** (Hook. & Arn.) G. L. Nesom

Syn.: *Aster setosus* Baker - *A. tuberosus* Baker - *Conyza blanchetii* Baker – *C. setosa* (Baker) Malme - *Diplopappus corymbosus* Hook. & Arn.

Iconography: Unknown.

Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: April.
Status: Native.
Distribution: COR (Empedrado).
Habitat: Sandy steppes, dry prairies (ORI).
Uses: Unknown.
Specimens Examined: COR (Pedersen 3901, LP).

2. **BACCHARIS** L., 30 species, 2 varieties.

1. Capitula monomorphic (a single type of capitulum, containing both carpellate and staminate florets).....2
- Capitula dimorphic (two types of capitula, one bearing carpellate florets and the other containing staminate florets, each type borne in separate individuals).....3
2. Leaves narrowly elliptic to linear, with base tapering onto false petiole.....4. *B. breviseta*
- Leaves ovate, truly petiolate.....30. *B. vulneraria*
3. Capitula sessile or shortly pedicellate (pedicels of only 1-2 mm long, exceptionally to 6 mm: *B. dracunculifolia*).....4
- Capitula long pedicellate (pedicels more than 2 mm long).....16
4. Stems with longitudinal green wings.....5
- Stems without longitudinal wings.....9
5. Leaves normal, narrowly elliptic to linear.....17. *B. phyteumoides*
- Leaves reduced, bracteiform.....6
6. Stems with three wings.....7
- Stems with two wings.....8
7. Wings to 3 mm wide, flat. Involucre of carpellate and staminate capitula 3-3.5 mm high.....14. *B. microcephala*
- Wings usually more than 3 mm wide, crisped. Involucre of staminate capitula 5-6 mm high, of carpellate ones 8-10 mm high.....6. *B.crispa*
8. Wings narrow, 0.5-2 mm wide.....3. *B. articulata*
- Wings broad, 3-10 mm wide.....11. *B. gaudichaudiana*
9. Capitula solitary at the apex of branches.....12. *B. gilliesii*
- Capitula in diverse capitulescences.....10
10. Plants with thick xylopodium. Involucre of carpellate capitula cylindric.....11
- Plants without xylopodium. Involucre of carpellate capitula campanulate.....14
11. Florets usually less than 10. Pappus of carpellate florets slightly accrescent.....9. *B. flabellata*
- Florets 10 or more. Pappus of carpellate florets notably accrescent.....12
12. Leaves narrowly obovate to linear, 0,2-0,6 cm wide. Carpellate florets up to 17.....20. *B. rufescens*
- Leaves elliptic or obovate, 0,5-2 cm wide. Carpellate florets more than 17.....13
13. Leaves entire or with inconspicuous teeth near the apex.....22. *B. sessiliflora*

- Leaves with conspicuous teeth from the base ..... 16. *B. pedersenii*
14. Leaves opposite (at least the basal). Capitula in glomerules, in turn grouped in a leafy spike. ..... 23. *B. spicata*
- Leaves alternate. Capitula solitary at axil of distal leaves, in all grouped to form a leafy spike or raceme. 15
15. Leaves linear, 1.5-3 mm wide. Florets 15-20. ..... 10. *B. frenguellii*
- Leaves elliptic or obovate, 3-10 mm wide. Florets more than 20. ..... 8. *B. dracunculifolia*
16. Plants subaphyllous, with leaves (at least the distal) reduced, bracteiform. ..... 15. *B. notosergila*
- Plants with leaves normal, non-bracteiform. 17
17. Leaves deeply pinnatisect, with rachis and segments linear. ..... 29. *B. ulicina*
- Leaves with margins entire or dentate. 18
18. Leaves uninerved. 19
- Leaves trinerved. 23
19. Plants densely white or grey-lanuginous. 20
- Plants of glabrous or glabrescent aspect. 21
20. Capitula solitary at the apex of branches. Receptacle of carpellate capitula with paleae. ..... 26. *B.tenella*
- Capitula in broad false panicles. Receptacle of carpellate capitula without paleae. ..... 2. *B. artemisioides*
21. Herbs. Involucres 8-15 mm wide. ..... 13. *B. juncea*
- Subshrubs. Involucres 3-5 mm wide. 22
22. Capitula solitary at the apex of branchlets, in all grouped to form a corymbiform cyme. Phyllaries apically acuminate. ..... 7. *B. darwinii*
- Capitula in broad false panicles. Phyllaries apically obtuse. ..... 5. *B. coridifolia*
23. Leaves opposite or subopposite. Style of staminate florets with branches brief and attached. 24
- Leaves alternate. Style of staminate florets with branches lanceolate and free. 25
24. Leaves broadly obovate, apically truncate or rounded, with 1-3 pairs of teeth in the apical 1/3 or half of the margins (sometimes also entire or sinuate). ..... 27. *B. tridentata*
- Leaves obovate-elliptic, apically obtuse, with 3-6 pairs of teeth along the whole margins or in the apical 2/3. ..... 25. *B. subopposita*
25. Leaves densely white-lanuginous on both sides, or at least abaxially. ..... 1. *B. albida*
- Leaves not densely lanuginous. 26
26. Plants scandent. Receptacle of carpellate capitula with paleae. ..... 28. *B. trinervis*
- Plants erect. Receptacle of carpellate capitula without paleae. 27
27. Herbs to 1 m tall. Cypselas densely papillose. 28
- Shrubs usually more than 1 m tall. Cypselas glabrous or with loose hairs. 29
28. Plants 10-30 cm tall, basally profusely branched, without principal stem definite. ..... 24. *B. stenophylla*
- Plants usually more than 30 cm tall, basally non-branched, with principal stem definite. ..... 18. *B. pingraea*
29. Leaves entire or serrulate in the apical 2/3 of the margins. Capitula in corymboid capitulescences. ..... 21. *B. salicifolia*
- Leaves serrulate along the whole margins. Capitula in paniculate capitulescences. ..... 19. *B. punctulata*

1. **Baccharis albida** Hook. & Arn.
Iconography: Cabrera: 276, fig. 154.1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: January, July.
Status: Native.
Distribution: CH (1º de Mayo).
Habitat: Scrubland (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 248, CTES, LP).

2. **Baccharis artemisioides** Hook. & Arn.
Iconography: Cabrera: 116, fig. 29 B.1963.
Vernacular: "Mío-mío blanco", "pichana blanca", "romerillo", "r. blanco", "r. malo".
Habit: Subshrub.
Flowering period: Summer.
Status: Native.
Distribution: CO (Capital, Colón), SF (9 de Julio).
Habitat: Dry and sandy lands (OCC, SAB).
Uses: Antirheumatic (Zardini, 1984).

Specimens Examined: CO (A. Hunziker 8150, LP), SF (Krapovickas 760, LP).
Obs.: Toxic for cattle (Freire et al., 2005).

3. **Baccharis articulata** (Lam.) Pers.
Syn.: *Conyza articulata* Lam.- *Molina articulata* (Lam.) Less.- *Pingraea articulata* (Lam.) F.H. Hellw.
Iconography: Cabrera: 112, fig. 28.1963.
Vernacular: "Carqueija", "carqueja", "c. blanca", "c. crespa", "carquejilla".
Habit: Shrub.
Flowering period: Winter-Spring.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), CO (Capital, Colón), COR (Bella Vista, Empedrado), SE (Gral. Belgrano, Copo, Gral. Taboada, Ojo de Agua, Quebrachos, Rivadavia), SF (Gral. Obligado, 9 de Julio), T (Leales).
Habitat: Steppe,grasses, saline areas (ORI, OCC, SAB).
Uses: Digestive, cholagogue, hepatic protective, diuretic, antiseptic, antirheumatic, aphrodisiac (Amat, 1983, Zardini, 1984).
Specimens Examined: CH (Schulz 53, BAB, LP), CO (Cozzo 23, LP), COR (Pedersen 1849, LP), SE (Elisetch & Cano 46, BAB), SF (Bruzzone 1616, LP), T (Venturi 386, LP).
Obs.: Toxic for cattle (Freire et al., 2005).

4. **Baccharis breviseta** DC.
Syn.: *Baccharidastrum argutum* (Less.) Cabrera - *Conyza arguta* Less.
Iconography: Cabrera: 248, fig. 135.1974.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: March.
Status: Native.
Distribution: CH (1° de Mayo).
Habitat: Moist areas (ORI, OCC, SAB).
Uses: Unknown.
Specimens Examined: CH (Schulz 11033, BAB).

5. **Baccharis coridifolia** DC.
Syn.: *Eupatorium montevidense* Spreng.
Iconography: Cabrera: 271, fig. 151.1974.
Vernacular: "Ajenjo del campo", "mío", "mío-mío", "nío", "ñío-ñío", "romerillo".
Habit: Subshrub.
Flowering period: Summer and Winter.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), F (Bermejo, Pilagás, Pilcomayo), SE (Aguirre, Rivadavia), CO (Colón, Río Seco), COR (Bella Vista, Capital, Empedrado, Goya, Lavalle, San Cosme), SF (Gral. Obligado, 9 de Julio, San Cristóbal, San Justo, Vera).
Habitat: Savannas, steppes (ORI, OCC, SAB).
Uses: Digestive, skin eruptions, sudorific (Freire & Urtubey, 1999b).
Specimens Examined: CH (Schulz 158, LP), F (Rojas 9028, LP), SE (Ragonese & Castiglioni 7730, BAB), CO (Lanfranchi 1166, LP, Bartlett 19815, LP), COR (Pedersen 6446, LP), SF (Job 1012, LP, 1079, LP).
Obs.: Toxic for cattle (Freire et al., 2005).

6. **Baccharis crispa** Spreng.
Syn.: *Baccharis cylindrica* (Less.) DC. - *B. genistelloides* var. *crispa* (Spreng.) Baker - *B. genistelloides* var. *cylindrica* (Less.) Baker - *Molina crispa* (Spreng.) Less. – *M. cylindrica* Less. - *Pingraea crispa* (Spreng.) F.H. Hellw.
Iconography: Cabrera: 81, fig. 66. 1971b.
Vernacular: "Carqueija", "carqueja", "c. crespa", "carquejilla".
Habit: Subshrub.
Flowering period: May.
Status: Native.
Distribution: CO (Río Seco).
Habitat: (OCC).
Uses: Cholagogue, hepatic protective, digestive, stimulant, febrifugal, antispasmodic, antirheumatic, antiseptic (Amat, 1983, Zardini, 1984).
Specimens Examined: CO (Sayago 253, LP).

7. **Baccharis darwinii** Hook. & Arn.
Syn.: *Baccharis angulata* Griseb.- *B. angulata* var. *andina* Hieron.- *B. grossedentata* Heering - *B. ulicina* var. *subintegrifolia* Kuntze - *Neomolina darwinii* (Hook. & Arn.) F.H. Hellw.
Iconography: Cabrera: 89, fig. 77. 1971b.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: October-May.
Status: Native.
Distribution: CH (Libertador Gral. San Martín, Mayor Fontana, 1° de Mayo, San Lorenzo), F (Bermejo, Patiño), SE (Brig. Ibarra, Gral. Taboada, Figueroa, Jiménez, Ojo de Agua, Pellegrini), CO (Capital), COR (Empedrado, San Cosme), SF (San Cristóbal, San Justo, Vera).
Habitat: Ravines, salines, train terrepleines (ORI, OCC, SAB).
Uses: Unknown.

Specimens Examined: CH (Schulz 222, CTES, LP), F (Krapovickas 1253, 1255, LP), SE (Ragonese & Castiglioni 7834, BAB), CO (A. Hunziker 8132, LP), COR (Krapovickas & Cristóbal 25412, LP), SF (Ragonese 3080, LP).

8. **Baccharis dracunculifolia** DC.
Syn.: *Baccharis bracteata* Hook. & Arn.- *B. dracunculifolia* var. *integerrima* Kuntze f. *subviscosa* Kuntze - *B. dracunculifolia* f. *spectabilis* Heering - *B. leptospermoides* DC.
Iconography: Cabrera: 262, fig. 144. 1974.
Vernacular: "Chilca", "c. mata ojo", "suncho".
Habit: Shrub or small tree.
Flowering period: Spring-Summer.
Status: Native.
Distribution: CH (Gral. Belgrano, Libertad, 1° de Mayo, San Fernando, 25 de Mayo), COR (Bella Vista, Capital, Empedrado), F (Bermejo, Laishi), SF (Gral. Obligado).
Habitat: Mountains (ORI, OCC).
Uses: Combustible (Zardini, 1984).
Specimens Examined: CH (Schulz 16278, BAB), COR (Schinini 6551, LP), F (Digiacomo 305, CTES), SF (Covas & Ragonese 4354, LP).

9. **Baccharis flabellata** Hook. & Arn.
Iconography: Ariza Espinar: 282, fig. 38 C-D.1973.
Vernacular: "Carqueja", "charrúa", "chilquilla", "clavillo", "romerillo".
Habit: Shrub.
Flowering period: May.
Status: Native.
Distribution: CO (Colón, Santa María), SE (Ojo de Agua).
Habitat: Mountain range places (OCC).
Uses: Antibiotic (Amat, 1983).
Specimens Examined: CO (A. Hunziker 9184, LP), SE (Molina et al. 1988, BAB, CTES).

10. **Baccharis frenguellii** Cabrera
Iconography: Cabrera: 260, fig. 142. 1974.
Vernacular: Unknown.
Habit: Shrub.
Flowering period: July.
Status: Native.
Distribution: CH (1° de Mayo).
Habitat: Sandy areas (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 187, LP).

11. **Baccharis gaudichaudiana** DC.
Syn.: *Baccharis articulata* var. *gaudichaudiana* (DC.) Baker
Iconography: Barroso: 259, photo 32. 1976.
Vernacular: "Carqueja", "c. doce".
Habit: Shrub.
Flowering period: November.
Status: Native.
Distribution: CH (Sgt. Cabral).
Habitat: River banks (ORI).
Uses: Digestive, hepatic protective, antiseptic (Martínez Crovetto, 1981, Zardini, 1984).
Specimens Examined: CH (Fortunato et al. 2593, BAB, SI).

12. **Baccharis gilliesii** A. Gray
Syn.: *Baccharis icma* Stuck. ex Heering - *B. involucrata* (Phil.) O. Hoffm.- *B. nana* D. Don ex Baker - *B. paucidentata* var. β Hook. & Arn. - *Icma involucrata* Phil.
Iconography: Cabrera: 86, fig. 75. 1971b
Vernacular: "Mata pulga", "m. trigo"
Habit: Subshrub.
Flowering period: Spring-Summer
Status: Native.
Distribution: CH (9 de Julio), SE (Gral. Belgrano, Moreno).
Habitat: Unknown (ORI, OCC).
Uses: Unknown.
Specimens Examined: CH (Schulz 10575, BAB), SE (Ragonese & Castiglioni 8617, BAB).

13. **Baccharis juncea** (Lehm.) Desf.
Syn.: *Arrhenachne juncea* Cass. - *Baccharis subulata* D. Don ex Hook. & Arn. - *Stephananthus junceus* Lehm.
Iconography: Cabrera: 86, fig. 73. 1971b.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: March, May, July, November.
Status: Native.
Distribution: SE (Aguirre, Banda, Robles, Sarmiento).
Habitat: Moist brakish, moist soils. (OCC).
Uses: Unknown.
Specimens Examined: SE (Delucchi et al 2121, LP).

14. **Baccharis microcephala** (Less.) DC.
Syn.: *Baccharis microptera* Baker - *Molina microcephala* Less.
Iconography: Cabrera: 255, fig. 139. 1974.
Vernacular: "Carqueija", "carqueja".
Habit: Shrub.
Flowering period: January, May.
Status: Native.

Distribution: CH (San Fernando), COR (Bella Vista, Saladas), F (S/Dpto.).
Habitat: (ORI).
Uses: Digestive, hepatic protective, antiseptic (Martinez Crovetto, 1981, Zardini, 1984).
Specimens Examined: CH (s/leg., ex-LPS 17042, LP), COR (Schinini & Cristóbal 9795, LP), F (Kermes s/n, BAB 2428),

15. **Baccharis notosergila** Griseb.
Syn.: *Baccharis curtifolia* S. Moore - *B. genistifolia* var. β Hook. & Arn.
Iconography: Cabrera: 282, fig. 158. 1974.
Vernacular: "Carqueija", "carqueja", "escoba guayeurú".
Habit: Shrub.
Flowering period: Summer.
Status: Native.
Distribution: CH (Bermejo, 1° de Mayo, Sgt. Cabral, Tapenagá, 25 de Mayo), F (Formosa, Pilcomayo, Pirané,), SE (Aguirre/Rivadavia), CO (Río Seco), COR (Empedrado, San Luis del Palmar), SF (Gral. Obligado, Vera).
Habitat: Unknown (ORI, OCC, SAB).
Uses: Antirheumatic, tinctorial and manufacture of brooms (Zardini, 1984), antibiotic (Amat, 1983).

16. **Baccharis pedersenii** Cabrera
Iconography: Cabrera: 265, fig. 146 B; 266, fig. 147 A-H. 1974.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: April, May.
Status: Native.
Distribution: COR (Mburucuyá, San Cosme).
Habitat: Sandy soils. (ORI).
Uses: Unknown.
Specimens Examined: COR (Pedersen 3872, LP).

17. **Baccharis phyteumoides** (Less.) DC.
Syn.: *Molina phyteumoides* Less.
Iconography: Cabrera: 253, fig. 137 A-H. 1974.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: November-December.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), F (Formosa), COR (Goya), SF (Gral. Obligado).
Habitat: "Pajonales" (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 1041, BAB, LP), F (Icikson & Melillo 144, BAB), COR (Cabrera 10514, LP), SF (Cabrera 10496, LP).

18. **Baccharis pingraea** DC.

1. Leaves ovate or elliptic, more than 3 mm wide. ..... a. var. *pingraea*
- Leaves linear, to 3 mm wide..... b. var. *angustissima*

a. **Baccharis pingraea** DC. var. **pingraea**
Syn.: *Baccharis angustifolia* Desf. (non Michx.). - *B. medullosa* DC. - *B. medullosa* var. *latifolia* Hieron. ex Heering - *B. prenanthoides* Baker - *B. pingraea* var. *latifolia* DC.- *B. serrulata* Baker (non Pers.) - *B. serrulata* var. *pingraea* (DC.) Baker - *B. subpingraea* Heering - *B. subpingraea* f. *crassifolia* Heering (p. p.). - *Conyza montevidensis* Spreng. - *Pingraea angustifolia* Cass.
Iconography: Cabrera: 280, fig. 157 A-H. 1974.
Vernacular: "Chilca", "suncho".
Habit: Perennial herb.
Flowering period: October-May.
Status: Native.
Distribution: CH (Gral. Donovan, Mayor Fontana, 9 de Julio, 1° de Mayo, San Fernando), FO (Laishi, Patiño, Pilcomayo), SE (Gral. Belgrano, Capital, Figueroa, Moreno, Ojo de Agua, Silípica), CO (Santa María), COR (Capital, Empedrado, Goya, San Cosme, San Luis del Palmar), LR (Chamical, Gral. Belgrano), SF (Gral. Obligado, San Cristóbal, San Javier, San Justo).
Habitat: diverse (ORI, OCC, SAB).
Uses: Antibiotic (Amat, 1983: 28).
Specimens Examined: CH (Schulz 2717, LP), F (Piccinini & Petetin 3437, BAB), Ragonese & Castiglioni 7981, BAB), SE (Elisetch 306, BAB), CO (A. Hunziker 716, LP), COR (Krapovickas & Schinini 21803, LP), Quarín et al. 1987, LP), LR (Biurrun 6587, LP), SF (Ragonese 3131, LP).

b. **Baccharis pingraea** DC. var. **angustissima** DC.
Syn.: *Baccharis subpingraea* f. *crassifolia* Heering (p. p.).
Iconography: Cabrera: 280, fig. 157 I. 1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: Summer.
Status: Native.
Distribution: CO (Río Seco, Sobremonte), LR (Chamical, Gral. Belgrano).
Habitat: diverse (OCC).
Uses: Unknown.
Specimens Examined: CO (Luti 4180, LP), LR (Biurrun 6424, LP).

19. **Baccharis punctulata** DC.
Syn.: *Baccharis amygdalina* Griseb. - *B. melastomifolia* Hook. & Arn. - *B. oxyodonta* var. *punctulata* (DC.) Baker - *Pingraea punctulata* (DC.) F.H. Hellw.
Iconography: Cabrera: 269, fig. 149 I. 1974.
Vernacular: "Chilca".
Habit: Shrub.
Flowering period: Summer-Autumn.
Status: Native.
Distribution: CH (Maipú, 1° de Mayo), F (Pilcomayo, Pirané, Bermejo), COR (San Cosme).
Habitat: Mainly in moist areas (ORI).
Uses: Unknown.
Specimens Examined:CH (Schulz 156, LP), F (Morel 3364), CTES, Schinini 4586, LP).

20. **Baccharis rufescens** Spreng.
Syn.: *Baccharis baldwinii* Hook. & Arn. - *B. denticulata* D. Don ex DC. - *B. paucidentata* DC. - *B. rufescens* var. *subrufescens* (Heering) Ariza - *B. santiagensis* Heering - *B. subrufescens* Heering
Iconography: Cabrera: 264, fig. 145. 1974.
Vernacular: Unknown.
Habit: Shrub.
Flowering period: February-April.
Status: Native.
Distribution: CH (12 de Octubre, Maipú, 1° de Mayo), CO (Colón, Dpto. Santa María), COR (Capital, Empedrado, Saladas, San Cosme), SF (Gral. Obligado).
Habitat: Unknown (ORI, OCC).
Uses: Unknown.
Specimens Examined: CH (Schulz 152, LP), CO (Lanfranchi 1147, LP), COR (Pedersen 9049, LP), SF (Maldonado 1733, LP).
Obs.: Toxic for cattle (Freire et al., 2005).

21. **Baccharis salicifolia** (Ruiz & Pav.) Pers.
Syn.: *Baccharis alamanii* DC. - *B. caerulescens* DC. - *B. farinosa* Spreng. - *B. glutinosa* Pers. - *B. iresinoides* Kunth - *B. lanceolata* Kunth - *B. lanceolata* Kunth emend. Heering - *B. linifolia* DC. (non Meyen) - *B. longipes* Kuntze ex DC. - *B. marginalis* DC. - *B. marginalis* var. *longipes* Heering - *B. parviflora* (Ruiz & Pav.) Pers. - *B. purpurascens* Heering - *B. viscosa* (Ruiz & Pav.) Kuntze - *B. viscosa* var. *nigricans* Kuntze - *Molina parviflora* Ruiz & Pav. - *M. salicifolia* Ruiz & Pav. - *M. striata* Ruiz & Pav. - *M. viscosa* Ruiz & Pav. - *Pingraea salicifolia* (Ruiz & Pav.) F.H. Hellw. - *P. viscosa* (Ruiz & Pav.) F.H. Hellw.
Iconography: Cabrera: 278, fig. 155. 1974.
Vernacular: "Chilca", "c. amarga", "c. dulce", "chirca", "jarilla", "j. del río", "junco", "suncho", "vara dulce", "yuno".
Habit: Shrub.
Flowering period: January-May.
Status: Native.
Distribution: CH (Gral. Güemes, Mayor Fontana, 1° de Mayo, San Fernando), F (Bermejo, Patiño, Pilagá), SE (Aguirre, Banda, Capital, Copo, Gral. Taboada, Pellegrini, Rivadavia, Robles, Silípica), C (La Paz), CO (Capital, Santa María), COR (Bella Vista, Empedrado, San Cosme), S (Gral. San Martín, Orán), SF (Gral. Obligado, 9 de Julio).
Habitat: Unknown (ORI, OCC, SAB).
Uses: Antiphlogistic, antitumoural (Amat, 1983), antirheumatic, antisyphilitic (Zardini, 1984).
Specimens Examined: CH (Schulz 9, 153 a-b, LP), C (Brizuela 216, LP), CO (Lanfranchi 994, LP), Maldonado 335, LP), COR (Pedersen 2693, LP), S (Novara 3340, LP), SF (Job 925, LP).

22. **Baccharis sessiliflora** Vahl
Syn.: *Baccharis cordobensis* Heering - *B. rotundifolia* Spreng. - *B. rotundifolia* var. *stuckertii* Heering - *B. sessiliflora* var. *stuckertii* (Heering) Cabrera
Iconography: Ariza Espinar: 282, fig. 38 E-G. 1973.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: Autumn.
Status: Native.
Distribution: CH (1° de Mayo, San

Fernando), COR (Capital).
Habitat: (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 64, CTES, LP), COR (Krapovickas & Schinini 21809, LP).

23. **Baccharis spicata** (Lam.) Baill.
Syn.: *Baccharis attenuata* D. Don ex Hook. & Arn. - *B. platensis* Spreng. - *Eupatorium spicatum* Lam.
Iconography: Cabrera: 121, fig. 30 A.1963.
Vernacular: "Carqueja".
Habit: Shrub, subshrub.
Flowering period:January-April.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), COR (Capital, Empedrado, Lavalle, Saladas), SF (9 de Julio).
Habitat: Steppe and «pajonales» (ORI, SAB).
Uses: Unknown.
Specimens Examined: CH (Schulz 151, BAB, LP), COR (Schinini 6598, LP), SF (ex-LPS 17132, LP).

24. **Baccharis stenophylla** Ariza
Syn.: *Baccharis subpingraea* f. *nana* Heering - *Baccharis subpingraea* f. *pseudoulicina* Heering
Iconography: Ariza Espinar: 242, fig. 29 E-G. 1973.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: March, April.
Status: Native.
Distribution: CO (Colón, Río Seco), LR (Chamical).
Habitat: Unknown (OCC).
Uses: Unknown.
Specimens Examined: CO (Bartlett 19897, LP), LR (Biurrun 2355, LP).

25. **Baccharis subopposita** DC.
Syn.: *Baccharis tweediei* Hook. & Arn. - *B. tridentata* var. *subopposita* (DC.) Cabrera
Iconography: Cabrera: 275, fig. 153. 1974.
Vernacular: Unknown.
Habit: Shrub.
Flowering period: April.
Status: Native.
Distribution: CH (Bermejo, Chacabuco, 9 de Julio, 1° de Mayo), COR (Empedrado).
Habitat: Unknown (ORI, OCC).
Uses: Unknown.
Specimens Examined: CH (Schulz 6458, CTES), COR (Pedersen 4795, LP).

26. **Baccharis tenella** Hook. & Arn.
Syn.: *Heterothalamus tenellus* (Hook. & Arn.) Kuntze - *Pseudobaccharis tenella* (Hook. & Arn.) Cabrera - *Psila tenella* (Hook. & Arn.) Cabrera
Iconography: Cabrera: 76, fig. 63.1971b.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: November-January.
Status: Native.
Distribution: CO (Río Primero, Río Seco), LR (Gral. Belgrano).
Habitat: Ravines, river banks (ORI).
Uses: Unknown.
Specimens Examined: CO (s/leg., ex-LPS 17162, LP), LR (Biurrun & Pagliari 6310, LP).

27. **Baccharis tridentata** Vahl
Syn.: *Baccharis affinis* DC. - *B. subopposita* var. *affinis* (DC.) Baker - *B. tweediei* Hook. & Arn. (p. p.)
Iconography: Cabrera: 219, fig. 94 A-E. 1978 (sub *B. tridentata* var. *subopposita*).
Vernacular: Unknown.
Habit: Shrub.
Flowering period: Summer-Autumn.
Status: Native.
Distribution: CH (Fray J. Santa María de Oro, Mayor Fontana, 1° de Mayo, Quitilipi, San Fernando), F (Laishi).
Habitat: Unknown (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 13682, CTES), F (Digiacomo 46, CTES).

28. **Baccharis trinervis** Pers.
Syn.: *Baccharis laxa* Gardner - *Conyza trinervis* Lam. - *Pseudobaccharis trinervis* (Pers.) Badillo - *P. trinervis* (Pers.) I.L. Teodoro, comb. superfl. - *Psila trinervis* (Pers.) Cabrera
Iconography: Cabrera: 230, fig. 98 I.1978.
Vernacular: Unknown.
Habit: Shrub.
Flowering period: All year.
Status: Native.
Distribution: CH (Cmte. Fernández, Pres. Roque Sáenz Peña, Gral. Güemes, Mayor Fontana, 9 de Julio, 1° de Mayo, San Fernando), F (Patiño, Pilcomayo, Pirané), SE (Brig. Ibarra, Silipica), COR (Capital, Empedrado, San Luis del Palmar).
Habitat: Unknown (ORI, OCC).
Uses: Unknown.
Specimens Examined: CH (Schulz 61, 61a, 61b, LP), F (Schulz 16876, BAB),

SE (Schulz 16356, BAB), COR (Pedersen 2745, LP).

29. **Baccharis ulicina** Hook. & Arn.
Syn.: *Baccharis pinnatifida* Klatt - *B. strobeliana* Ces. - *B. ulicina* var. *multifida* (Griseb.) Kuntze - *Neomolina ulicina* (Hook. & Arn.) F.H. Hellw. - *Vittadinia multifida* Griseb.
Iconography: Cabrera: 267, fig. 148. 1974.
Vernacular: "Pichana de oveja", "yerba de la oveja".
Habit: Subshrub.
Flowering period: November-May.
Status: Native.
Distribution: CH (12 de Octubre, 1° de Mayo, San Fernando), SE (Aguirre, Alberdi, Avellaneda, Capital, Choya, Figueroa, Gral. Taboada, Moreno, Ojo de Agua, Salavina, Silipica), CO (Colón), LR (Chamical, Gral. Ocampo), SF (9 de Julio, Vera).
Habitat: Unkown (ORI, OCC, SAB).
Uses: Unknown.
Specimens Examined: CH (Schulz 116, BAB, LP), SE (Bartlett 19787, LP), CO (Burkart 7502, LP), LR (Ruiz Leal 16609, LP), SF (Job 1165, LP).

30. **Baccharis vulneraria** Baker
Syn.: *Baccharidastrum triplinervium* (Less.) Cabrera - *Baccharis pseudoserrulata* I.L. Teodoro - *B. serrulata* DC. (non Pers.). -*Conyza triplinervia* Less.
Iconography: Cabrera: 247, fig. 134.1974.
Vernacular: "Yerba santa".
Habit: Subshrub.
Flowering period: February-April
Status: Native
Distribution: CH (1° de Mayo).
Habitat: Moist areas (ORI).
Uses: Antiseptic (Zardini, 1984).
Specimens Examined: CH (Schulz 155, BAB, LP)

3. **CONYZA** Less., nom. conserv., 7 species

1. Capitula very numerous in usually paniculiform capitulescences 2
- Capitula relatively few (to ca 30) in usually corymbiform capitulescences..... 3
2. Plants covered by small glandular trichomes ..... 2. *C. glandulitecta*
-. Plants not glandular.....7. *C. sumatrensis*
3. Plants scapose.....4
-. Plants not scapose 5
4. Roots turnip-shaped. Capitula in loose capitulescences..... 4 *C. monorchis*
-. Roots elongated, not broadened. Capitula in dense capitulescences.....6. *C. primulifolia*
5. Leaves strigose, appearing grayish.....1. *C. bonariensis*
-. Leaves glabrous or slightly hirsute, not grayish.....6
5. Plants small (to 35 cm long). Leaves narrowly linear, glabrous .....5. *C. pampeana*
- Plants taller (to 60 cm long.). Leaves obovate, slightly hirsute..... .....3. *C. lorentzii*

1. **Conyza bonariensis** (L.) Cronquist

1. Leaves all narrowly linear, margins entire .....a. var. *angustifolia*
-. Lower leaves narrowly obovate, margins serrate or lobed, the upper leaves with entire margins.....b. var. *bonariensis*

a) var. **bonariensis**
Syn: *Conyza hispida* Kunth - *C. linearis* DC. - *C. plebeja* Phil. - *Erigeron bonariensis* L .- *Marsea bonariensis* (L.) V. M. Badillo
Iconography: Cabrera: 189, fig. 82 F-H. 1978
Vernacular: "Carnicera", "hierba carnicera", "mata negra", "sanguinaria".
Habit: Annual herb.
Flowering period: September, November-March.
Status: Native.
Distribution: CH (Bermejo, 9 de Julio, 1° de Mayo, San Fernando), COR (Empedrado, Capital, San Roque), FO (Formosa, Patiño, Pilcomayo), SA (Orán), SE (La Capital, Robles).
Habitat: Dry woodlands, clearings, road sides, disturbed areas (OCC, ORI).
Uses: Medicinal, hepatic infection, digestive ulcer, diuretic, cholagogue (Freire & Urtubey, 2000c).
Specimens examined: CH (Schulz 12151, BAB), COR (Pedersen 5490, LP), FO (Delucchi et al. 1960, LP), SA

(Maldonado 766, LP), SE (Argañaráz 213, LP).
Obs.: Toxic for cattle (Freire et al., 2005).

b) var. **angustifolia** (Cabrera) Cabrera
Syn.: *Erigeron bonariensis* var *angustifolius* Cabrera
Iconography: Cabrera: 224, fig. G-K. 1974.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: November-February.
Status: Native.
Distribution: CH (Mayor Fontana, 1º de Mayo), COR (Goya), FO (Formosa), SE (Moreno), SF (Gral. Obligado, San Cristóbal).
Habitat: Sandy steppes, clearings, road sides, disturbed areas (OCC, ORI, SAB).
Uses: Unknown.
Specimens examined: CH (Boffa 1045, LP), COR (Krapovickas & Irigoyen 17840, LP). FO (Delucchi et al. 1951, LP), SE (Molina 2779, BAB), SF (Covas & Ragonese 3866, LP).

2. **Conyza glandulitecta** Cabrera
Iconography: Cabrera: 350, fig. 2. 1972.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: February.
Status: Native.
Distribution: COR (Empedrado).
Habitat: Forest, disturbed or shady areas, clay soils (ORI).
Uses: Unknown.
Specimens examined: COR (Quarín et al. 2280, LP).

3. **Conyza lorentzii** Griseb.
Syn: *Erigeron lorentzii* (Griseb.) Cabrera
Iconography: Roig: 173, fig. 91. 1971b.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: November-February.
Status: Native.
Distribution: CH (1º de Mayo, Mayor Fontana, San Fernando), COR (Empedrado), LR (Gral. Belgrano).
Habitat: Forest, clay soils (OCC, ORI).
Uses: Unknown.
Specimens examined: CH (Cabrera 18566, LP), COR (Pedersen 10860, LP), LR (Ruiz Leal 17583 & Roig, LP).

4. **Conyza monorchis** (Griseb.) Cabrera
Syn: *Erigeron monorchis* Griseb.
Iconography: Baker: fig. 12. 1882 (sub *Erigeron monorchis*).
Vernacular: Unknown
Habit: Perennial herb.
Flowering period: October, November.
Status: Native.
Distribution: CH (1º de Mayo), COR (Empedrado).
Habitat: Lower areas of fields, near train-tracks (ORI).
Uses: Unknown.
Specimens examined: CH (Schulz 239, LP), COR (Pedersen 1856, LP).

5. **Conyza pampeana** (Parodi) Cabrera
Syn: *Erigeron pampeanus* Parodi
Iconography: Cabrera: 86, fig. 21 B. 1963.
Vernacular: Unknown.
Habit: Annual herbs.
Flowering period: September, November.
Status: Native.
Distribution: CH (1º de Mayo), COR (Empedrado), SF (Gral. Obligado, Vera).
Habitat: Humid areas (ORI, SAB).
Uses: Unknown.
Specimens examined: CH (Schulz 111, LP), COR (Pedersen 1832, LP), SF (Ragonese 93, LP).

6. **Conyza primulifolia** (Lam.) Cuatrec. & Lourteig
Syn: *Conyza chilensis* Spreng. - *C. myosotifolia* Kunth - *C. scabiosifolia* J. Rémy - *C. yungasensis* Rusby - *Erigeron chilensis* (Spreng.) D. Don ex G. Don - *Inula primulifolia* Lam. - *Marsea chilensis* (Spreng.) Kuntze - *M. chilensis* (Spreng.) V. M. Badillo
Iconography: Cabrera: 43, fig. 29. 1971b (sub *C. chilensis*).
Vernacular: Unknown.
Habit: Bi-annual or perennial herb.
Flowering period: December-February, May, August, October.
Status: Native.
Distribution: CH (1º de Mayo, 9 de Julio, San Fernando, San Martín), COR (Bella Vista, Capital, Empedrado, San Luis del Palmar), FO (Pilcomayo, Pirané), SA (Orán), SE (Guasayán, La Banda), SF (Gral. Obligado), TU (Leales).
Habitat: Fertile or sandy soils, cultivated fields (OCC, ORI).
Uses: Unknown.
Specimens examined: CH (Schulz 10642, BAB), COR (Krapovickas & Cristobal 11608, LP), FO (Morel 3937, LP), SA (Krapovickas 1619, LP), SE (Molina 1538, BAB), SF (Quarín 798, LP), TU (Venturi 573, LP).

7. **Conyza sumatrensis** (Retz.) E. Walker

1. Involucres hirsute-pilose..... .....a. var. *sumatrensis*
-. Involucres glabrous or subglabrous..... .....b. var. *leiotheca*

a) var. **sumatrensis**
Syn: *C. albida* Willd. ex Spreng. - *Conyza altissima* Naudin ex Debeaux - *C. bonariensis* var. *leiotheca* f. *subleiotheca* Cuatrec .- *C. bonariensis* var. *microcephala* (Cabrera) Cabrera - *C. erigeroides* DC .- *C. floribunda var. subleiotheca* (Cuatrec.) J. B. Marshall - *Erigeron albidus* (Willd. ex Spreng.) A. Gray - *E. albidus* (Willd. ex Spreng.) Herter, comb. superfl. - *E. bonariensis* var. *microcephalus* Cabrera - *E. sumatrensis* Retz.
Iconography: Cabrera: 224, fig. 117 A-F. 1974 (sub *Conyza bonariensis* var. *microcephala*).
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: February.
Status: Native.
Distribution: CH (Mayor Fontana), SA (Orán).
Habitat: Humid areas, disturbed areas (OCC, ORI).
Uses: Unknown.
Specimens examined: CH (Boffa 1044, LP), SA (Krapovickas 1621, LP).

b) var. **leiotheca** (S. F. Blake) Pruski & Sancho
Syn: *Conyza bonariensis* var. *leiotheca* (S. F. Blake) Cuatrec. - *C. floribunda* Kunth - *C. sumatrensis* var. *floribunda* (Kunth) J. B. Marshall - *Erigeron bonariensis* var. *floribundum* (Kunth) Cuatrec. - *E. bonariensis* f. *glabrata* Speg. - *E. bonariensis* var. *leiothecus* S. F. Blake - *E. floribundus* (Kunth) Sch. Bip .- *Marsea bonariensis* var. *leiotheca* (S. F. Blake) V. M. Badillo
Iconography: Cabrera: 189, fig. 82 A-E. 1978 (sub *Conyza floribunda*).
Vernacular: "Carnicera".
Habit: Annal herb.
Flowering period: March, July.
Status: Native.
Distribution: COR (Capital), SA (Orán).
Habitat: Widespread (OCC, ORI).
Uses: Unknown.
Specimens examined: COR (Krapovickas & Schinini 21811, LP), SA (Abbiatti & Claps 516, LP).

4. **EGLETES** Cass., 1 species.

1. Egletes viscosa (L.) Less.
Syn: *Cotula viscosa* L.
Iconography: Mc Vaugh: 318, fig. 50. 1984.
Vernacular: Unknown.
Habit: Herb.
Flowering period: August, November-December.
Status: Native.
Distribution: CH (Bermejo, Gral. Güemes, 1º de Mayo, San Fernando), FO (Laishi), SA (Orán).
Habitat: Stream or lagoon banks (OCC, ORI).
Uses: Unknown.
Specimens examined: CH (Schulz 12377, BAB), FO (Piccinini & García 1156, BAB), SA (Rodríguez 1095, LP)

5. **ERIGERON** L., 2 species.

1. Plants to 60 cm tall. Leaves linear. Capitula few, arranged in loose capitulescences..... 1. *E. meyeri*
-. Plants to 100 cm tall. Leaves obovate. Capitula numerous, arranged in glomerate capitulescences.....2. *E. tweediei*

1. Erigeron meyeri Cabrera
Iconography: Solbrig:191, fig. 15-18. 1962.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: May.
Status: Native.
Distribution: CH (San Fernando).
Habitat: Prairies, clayish soils (ORI).
Uses: Unknown.
Specimens examined: CH (Meyer 2234, LP).

2. **Erigeron tweediei** Hook. & Arn.
Syn: *Erigeron seneciiformis* S. F. Blake - *Haplopappus tweediei* (Hook. & Arn.) Malme - *Leucopsis tweediei* (Hook & Arn.) Baker
Iconography: Baker: fig. 4. 1882 (sub *Leucopsis tweediei*).
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: December.
Status: Native.
Distribution: CH (1° de Mayo).
Habitat: Reservoirs, wet areas (ORI).
Uses: Unknown.
Specimens examined: CH (Schulz 1039, LP).

6. **GRINDELIA** Willd., 7 species (1 endemic).

1. Plants glabrous, subglabrous or laxly pubescent....2
-. Plants densely pubescent, trichomes simple or glandular....4
2. Leaves linear (to 7 mm wide)....3
-. Leaves obovate-elliptic (to 15 mm long)....5. *G. pulchella*
3. Phyllaries with entire margins. Corolla limbs of marginal floret to 15 mm long....7. *G. scorzonerifolia*
-. Phyllaries with ciliate margins. Corolla limbs of marginal florets to 7-8 mm long....6. *G. ragonesei*
4. Trichomes predominantly glandular....5
-. Trichomes predominantly simples....6
5. Plants erect....2. *G. cabrerae*
-. Plants prostrate....3. *G. chacoënsis*
6. Involucre 10-11 mm high....4. *G. puberula*
-. Involucre 7-9 mm high....1. *G. brachystephana*

1. **Grindelia brachystephana** Griseb.
Syn: *Grindelia bergii* (Hieron.) Cabrera - *G. brachystephana* var. *bergii* Hieron. - *G. tehuelches* (Speg.) Cabrera - *Haplopappus patagonicus* Speg. - *H. tehuelches* Speg.
Iconography: Cabrera: 214, fig. 112. 1974.
Vernacular: Unknown.
Habit: Subshrubs prostrate.
Flowering period: January-December.
Status: Native.
Distribution: CH (1° de Mayo), COR (Bella Vista, Capital, Goya, Lavalle, Saladas, San Roque), SE (Gral. Belgrano, Jiménez, Moreno), SF (Gral. Obligado).
Habitat: Sandy, humid, or salty soils (ORI).
Uses: Unknown.
Specimens examined: CH (Schulz 202, CTES), COR (Schinini 12686, LP), SE (Venturi 10394, LP), SF (Pire 1899, CORD).

2. **Grindelia cabrerae** Ariza var. **cabrerae**
Syn: *Grindelia pulchella* var. *serratifolia* Kuntze - *G. pulchella* var. *sublinearis* Kuntze
Iconography: Bártoli & Tortosa: 339, fig. 6 A. 1999.
Vernacular: Unknown.
Habit: Subshrubs.
Flowering period: Unknown.
Status: Native.
Distribution: FO (Patiño), SE (Aguirre, Atamisqui, Ojo de Agua, Quebracho, Rivadavia), SF (9 de Julio).
Habitat: Forest, salty soils, hill sides (OCC, ORI, SAB).
Uses: Unknown.
Specimens examined: FO (Insfrán 963, SI), SE (Balegno 449, LIL), SF (Schulz 1231, LIL).

3. **Grindelia chacoënsis** A. Bartoli & Tortosa
Syn: *Grindelia puberula* var. *microcephala* Cabrera
Iconography: Bártoli & Tortosa: 341, fig. 7. 1999.
Vernacular: Unknown.
Habit: Subshrubs.
Flowering period: March, November-January.
Status: Endemic.
Distribution: CH (Bermejo), COR (Bella Vista, Lavalle, Saladas, San Roque), SF (Gral. Obligado, 9 de Julio).
Habitat: Humid areas, stream banks (ORI, SAB).
Uses: Unknown.
Specimens examined: CH (Joergensen 2927, LP), COR (Krapovickas 24549, LP), SF (Burkart 5730, SI).

4. **Grindelia puberula** Hook. & Arn.

Syn: *Grindelia puberula* f. *angustifolia* Malme
Iconography: Cabrera: 33: 230, fig. 9. 1931.
Vernacular: Unknown.
Habit: Shrub.
Flowering period: February, November-December.
Status: Native.
Distribution: FO (Pirané), SA (Orán), SE (Pellegrini).
Habitat: Stream banks (OCC, ORI).
Uses: Medicinal, cough (Bártoli & Tortosa, 1999).
Specimens examined: FO (Morel 175, LIL), SA (Villa & Legname 3663 L, LIL), SE (Venturi 5640, SI).

5. **Grindelia pulchella** Dunal

1. Capitula radiate. Corollas of marginal florets ligulate.....a. var. *pulchella*
-. Capitula discoid. Corollas of marginal florets tubular.....b. var. *discoidea*

a) var. **pulchella**
Syn.: *Grindelia diffusa* Gillies ex Hook. & Arn.
Iconography: Cabrera: 216, fig. 113. 1974 (sub *Grindelia discoidea*).
Vernacular: "botoncito", "chilca amarilla" "pichanilla amarilla".
Habit: Subshrub.
Flowering period: December-May.
Status: Native.
Distribution: CH (1º de Mayo, 12 de Octubre), SE (Choya), SF (Vera).
Habitat: Road sides (OCC, ORI, SAB).
Uses: Medicinal, dye plants (Zardini, 1984).
Specimens Examined: CH (Birabén 43, LP), SE (Xifreda & Maldonado 734, LP), SF (Castellanos s.n. BA 19652).

b) var. **discoidea** (Hook. & Arn.) A. Bartoli & Tortosa
Syn.: *Grindelia anomala* DC.- *G. discoidea* Hook. & Arn.
Iconography: Cabrera: 214, fig. 1. 1931.
Vernacular: "Botón de oro", "vácomo".
Habit: Subshrub.
Flowering period: January.
Status: Native.
Distribution: SE (Robles).
Habitat: Road sides (OCC).
Uses: Antispasmodic, antiasthmatic, etc. (Zardini, 1984, Amat, 1983).
Specimens Examined: SE (Argañaraz 215, LIL).

6. **Grindelia ragonesei** Cabrera
Syn.: *Grindelia scorzonerifolia* var. *spathulata* Cabrera
Iconography: Cabrera: 229, fig. 8. 1931 (sub *Grindelia scorzonerifolia* var. *spathulata*).
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: October-April.
Status: Native.
Distribution: CH (San Fernando), COR (Capital, San Roque), SF (Gral. Obligado, Vera).
Habitat: Humid areas, salty soils, stream banks (ORI, SAB).
Uses: Unknown.
Specimens Examined: CH (Schulz 888, LP), COR (Malvarez 1555, LIL), (SF (Lewis 705, SI).

7. **Grindelia scorzonerifolia** Hook. & Arn.
Syn.: *Grindelia pectinata* Baker - *G. scorzonerifolia* var. *pectinata* (Baker) Hassl. - *G. scorzonerifolia* var. *subintegra* Hassl.
Iconography: Cabrera: 228, fig. 7. 1931.
Vernacular: "margarita de los gredales".
Habit: Subshrub.
Flowering period: February-April, November-December.
Status: Native.
Distribution: CH (Bermejo, 1º de Mayo, 12 de Octubre, San Fernando), COR (Capital, Goya, Saladas, San Cosme), SF (San Cristóbal).
Habitat: Hard or salty, sunny soils (ORI, SAB).
Uses: Unknown.
Specimens Examined: CH (Schulz 105, LP), COR (Burkart 6832, SI), SF (Lewis 1623, SI).

7. **HYSTERIONICA** Willd., 2 species.

1. Annual herbs, stems erect. Leaves only with long trichomes.....1. *H. bakeri*
-. Perennial herbs, stems ascending. Leaves with dense short trichomes and sparse long trichomes.....2. *H. jasionoides*

1. **Hysterionica bakeri** Hicken
Syn.: *Hysterionica caurina* I. M. Johnst. - *H. grisebachii* Hieron., nom. in sched. - *H. subvillosa* (DC.) Griseb.
Iconography: Cabrera: 194, fig. 84 A-F. 1978.
Vernacular: "Solyuyo".
Habit: Annual herb.
Flowering period: November.
Status: Native.
Distribution: CH (General Güemes, 1° de Mayo), SE (Choya, Ojo de Agua, La Banda, Río Hondo).
Habitat: Hill sides, salty soils.
Uses: Unknown.
Specimens Examined: CH (Molina 2262 & Sanchez, BAB), SE (Molina 1660, BAB).

2. **Hysterionica jasionoides** Willd.
Syn.: *Chrysopsis ? andicola* Phil. - *Diplopappus hispidus* Gillies ex Hook. & Arn. - *Erigeron mendocinus* Greene - *Heterochaeta hispida* DC. - *Hysterionica intermedia* Hieron., nom. in sched.
Iconography: Cabrera, op. cit.: 194, fig. 84 G-J. 1978.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: November.
Status: Native.
Distribution: SE (Gral. Belgrano, Guasayán, Ojo de Agua). Also cited for Chaco and Formosa.
Habitat: Widespread.
Uses: Medicinal (Zardini, 1984)
Specimens Examined: SE (Delucchi et al. 2075, LP).

8. **LAENNECIA** Cass., 1 species.

1. **Laennecia sophiifolia** (Kunth) G. L. Nesom
Syn.: *Conyza coulteri* var. *tenuisecta* A. Gray - *C. pulchella* Kunth - *C. serpentaria* Griseb. - *C. sophiifolia* Kunth - *Eschenbachia tenuisecta* (A. Gray) Woot. & Standl. - *Marsea sophiifolia* (Kunth) Kuntze - *M. sophiifolia* (Kunth) V. M. Badillo
Iconography: Cabrera: 176, fig. 76 A-G. 1978.
Vernacular: "Yerba de la araña", "y. de la víbora", "y. del zorro".
Habit: Annual herb.
Flowering period: October, December-February.
Status: Native.
Distribution: CH (Mayor Fontana), CORD (Totoral), SE (Choya, Ojo de Agua), TU (Cruz Alta).
Habitat: Disturbed areas, clearings (OCC, ORI).
Uses: Diuretic, snake bites (Zardini, 1984).
Specimens Examined: CH (Schulz 2686, LP), CORD (Burkart 20101, LP), SE (Maldonado 924, LP), TU (Venturi 575, LP).

9. **MICROGYNELLA** Grau, 1 species.

1. **Microgynella trifurcata** (Less.) Grau
Syn.: *Erigeron ? tridactylus* DC. - *E. trifurcatus* (Less.) Hook. & Arn. - *Microgyne trifurcata* Less. - *Vittadinia trifurcata* (Less.) Griseb.
Iconography: Cabrera: 94, fig. 23. 1963 (sub *Vittadinia trifurcata*).
Vernacular: Unknown.
Habit: Perennial herbs or subshrubs.
Flowering period: October.
Status: Native.
Distribution: SE (Ojo de Agua).
Habitat: Road sides, stream banks, hills (OCC).
Uses: Medicinal.
Specimens Examined: SE (Piccinini & Hilfer 3791, BAB).

10. **NOTICASTRUM** DC., 4 species.

1. Corollas of marginal florets yellow.....1. *N. acuminatum*
-. Corollas of marginal florets white or violet.....2
2. Plants erect. Capitula sub-radiate (corolla limb not exceeding the pappus).....3
-. Plants prostrate. Capitula radiate.....4. *N. macrocephalum*
3. Upper leaves reduced.....2. *N. argentinense*
-. Upper leaves gradually smaller.....3. *N. gnaphalioides*

1. **Noticastrum acuminatum** (DC.) Cuatrec.
Syn.: *Aplopappus ? acuminatus* DC. - *Aster calendulaceus* (Griseb.) Kuntze - *Haplopappus calendulaceus* Griseb. - *Leucopsis acuminata* (DC.) Malme - *L. calendulacea* (Griseb.) Baker - *Noticastrum calendulaceum* (Griseb.) Malme
Iconography: Zardini: 349-351, fig. 14-16. 1985.
Vernacular: "Primavera doble".
Habit: Perennial herb.
Flowering period: December-May, August, September.
Status: Native.
Distribution: CH (1° de Mayo, 12 de Octubre, Mayor Fontana, Quitilipi, San Fernando), COR (Bella Vista, Capital, Empedrado, Goya, Lavalle), FO (Patiño).
Habitat: Fertile, dry, or sandy soils (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 106, LP), COR (Cristobal et al. 1131, LP), FO (Molina 436, BAB).

2. **Noticastrum argentinense** (Cabrera) Cuatrec.
Syn.: *Aster argentinensis* Cabrera
Iconography: Cabrera: 74, fig. 20. 1941a. (sub *Aster argentinensis*).
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: March.
Status: Native.
Distribution: COR (Saladas).
Habitat: Prairies, road sides (ORI).
Uses: Unknown.
Specimens Examined: COR (Pedersen 9053, LP).

3. **Noticastrum gnaphalioides** (Baker) Cuatrec.
Syn.: *Aster gnaphalioides* (Baker) Hassl. - *Leucopsis gnaphalioides* Baker
Iconography: Baker: fig. 3. 1882 (sub *Leucopsis gnaphalioides*).
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: March.
Status: Native.
Distribution: CH (1° de Mayo), COR (Bella Vista, Empedrado, Goya), FO (Formosa).
Habitat: Fertile soils (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 182, LP), COR (Pedersen 7728, LP), FO (Joergensen 2924, SI).

4. **Noticastrum macrocephalum** (Baker) Cuatrec.
Syn.: *Aster macrocephalus* (Baker) Hassl. - *A. macrocephalus* var. *pseudognaphalioides* Hassl. - *Leucopsis macrocephala* Baker
Iconography: Zardini: 392, fig. 33. 1985.
Vernacular: "Clavel del campo".
Habit: Perennial herb.
Flowering period: April, October.
Status: Native.
Distribution: COR (Bella Vista, Lavalle, Saladas).
Habitat: Dry areas, sandy soils (ORI).
Uses: Unknown.
Specimens Examined: COR (Pedersen 11697, LP).

11. **PODOCOMA** Cass., 4 species.

1. Cypselas with short beak (0.1-2 mm long).....2
-. Cypselas rostrate, with long beak (2-3.5 mm long).....3
2. Capitula solitary or few (2-3). Pappus bristles numerous.....1. *P. bellidifolia*
-. Capitula more than 10. Pappus bristles a few.....2. *P. notobellidastrum*
3. Leaf margins dentate, upper leaves usually similar in size as the lower ones.....3. *P. hirsuta*
-. Leaf margins denticulate, upper leaves a few and very reduced.....4. *P. hieracifolia*

1. **Podocoma bellidifolia** Baker
Iconography: Cabrera: 168, fig. 74. 1978.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: January, May.
Status: Native.
Distribution: CH (1° de Mayo).
Habitat: Fertile soils (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 207, LP).

2. **Podocoma hieracifolia** (Poir.) Cass.
Syn.: *Erigeron hieracifolium* Poir. - *E. primulifolius* Juss. in sched ex Cass. - *Podocoma erigerifolia* Steud. (pro syn.

sphalm.- *P. primulifolia* Cass.). - *P. primulifolia* Cass. - *Podopappus pubescens* Hook. & Arn.
Iconography: Baker: fig. 6, fig. 1. 1882.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: May, June.
Status: Native.
Distribution: CH (San Fernando, 1° de Mayo), COR (Empedrado).
Habitat: Fertile and sandy soils (ORI).
Uses: Unknown.
Specimens Examined: CH (Meyer 2307, LP), COR (Pedersen 6487, LP).

3. **Podocoma hirsuta** (Hook. & Arn.) Baker
Syn.: *Podopappus hirsutus* Hook. & Arn.
Iconography: Cabrera: 97, fig. 24. 1963.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: Unknown.
Status: Native.
Distribution: CH (Mayor Fontana, 1° de Mayo).
Habitat: Humid areas, near train tracks (ORI).
Uses: Unknown.
Specimens Examined: CH (Meyer 2518, LP).

4. **Podocoma notobellidastrum** (Griseb.) G. L. Nesom
Syn.: *Baccharidastrum notobellidastrum* (Griseb.) Herter - *Conyza notobellidastrum* Griseb. - *C. notobellidastrum* var. *oblongifolia* Griseb. - *Erigeron notobellidastrum* (Griseb.) S. F. Blake - *E. pauciflorus* Less., pro syn, ex Baker - *Marsea notobellidiastrum* (Griseb.) Kuntze
Iconography: Cabrera: 182, fig. 80, G-L. 1978. (sub *Conyza notobellidiastrum*).
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: Unknown.
Status: Native.
Distribution: CH (1° de Mayo, Bermejo), FO (Pilcomayo), COR (Capital, Empedrado, San Luis del Palmar).
Habitat: Forest (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 75, LP), FO (Morel 3924, LP), COR (Schinini et al. 9430, LP).

12. **SOLIDAGO** L., 1 species.

1. **Solidago chilensis** Meyen

1. Plants glabrous.....a. var. *chilensis*
-. Plants pubescent.....b. var. *megapotamica*

a) var. **chilensis**
Syn.: *Solidago linearifolia* DC. - *S. linearifolia* var. *brachypoda* Speg. - *S. microglossa* var. *linearifolia* (DC.) Baker
Iconography: Cabrera: 75, fig. 18. 1963.
Vernacular: "Felel", "punta de lanza", "romerillo amarillo", "saucillo", "vara amarilla", "v. de oro".
Habit: Perennial herb.
Flowering period: February-March, May, November.
Status: Native.
Distribution: CH (Mayor Fontana, San Fernando, 1° de Mayo), SE (Capital, Copo, Figueroa, Vilmer).
Habitat: Widespread weed (OCC, ORI).
Uses: Analgesic, diuretic, vermifuge, provitaminic, anthelmintics, anticephalalgic, dye compounds extraction, etc. (Freire & Urtubey, 2000c)
Specimens Examined: CH (Meyer 77, LP), SE (Molina 2623 & Hilfer, BAB).

b) var. **megapotamica** (DC.) Cabrera
Syn.: *Solidago microglossa* DC. var. *megapotamica* DC.
Iconography: -.
Vernacular: "Vigaurea", "yerba de Santa María", "yuyo de San Juan".
Habit: Perennial herb.
Flowering period: January-March.
Status: Native.
Distribution: CH (Cmte. Fernández, San Fernando), COR (Bella Vista, Capital, Empedrado, Saladas), FO (Pilagá, Pilcomayo), SE (Gral. Belgrano), SF (Gral. Obligado).
Habitat: Sandy soils, stream banks, road sides (OCC, ORI).
Uses: Medicinal, vulnerary, gonorrhea (Freire & Urtubey, 2000c).

Specimens Examined: CH (Pérez 181, BAB), COR (Schwarz 9297, LP), FO (Morel 3935, LP), SE (Elisetch 282, BAB), SF (Job 983, LP).
Obs.: Toxic for cattle (Freire et al., 2005).

13. **SYMPHYOTRICHUM** Nees, 2 species.

1. Leaves to 5 mm wide, involucre 8-13 mm high.....2. *S. graminifolius*
-. Leaves to 20 mm wide, involucre 5-8 mm high.....1. *S. squamatus*

1. Symphyotrichum graminifolium (Spreng.) G. L. Nesom
Syn.: *Aster cabrerae* Ariza - *Aster divaricatus* var. *graminifolius* (Spreng.) Baker - *A. squamatus* var. *graminiflolius* (Spreng.) Hieron. - *Conyza graminifolia* Spreng. - *Conyzanthus graminifolius* (Spreng.) Tamamsch.
Iconography: Cabrera: 238, fig. 127. 1974. (sub *Aster squamatus* var. *graminifolius*).
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: March, July, September.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), COR (Empedrado).
Habitat: Wet areas, marshlands (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 71, LP), COR (Pedersen 6445, LP).

2. Symphyotrichum squamatum (Spreng.) G. L. Nesom
Syn.: *Aster asteroides* (Colla) Rusby - *A. divaricatus* Baker non Torrey & A. Gray - *A. exilis* var. *australis* A. Gray – *A. linifolius* Griseb., non Torrey & Gray - *A. moelleri* (Phil.) Reiche - *A. squamatus* (Spreng.) Hieron. - *A. subtropicus* Morong. - *Baccharis asteroides* Colla - *Conyza berteroana* Phil. - *C. squamata* Spreng. - *Conyzanthus squamatus* (Spreng.) Tamamsch. - *Erigeron depilis* Phil. - *E. semiamplexicaule* Meyen - *Tripolium conspicuum* J. Rémy - *T. moelleri* Phil. - *T. oliganthum* Phil. - *T. subulatum* var. *brasilianum* DC.
Iconography: Cabrera: 237, fig. 126. 1974.
Vernacular: "Mata negra", "rama negra".
Habit: Perennial herb.
Flowering period: February-May.
Status: Native.
Distribution: CH (1° de Mayo), COR (Capital, Goya, Saladas, San Luis del Palmar), FO (Pirané), SE (Capital, Copo, Río Hondo), SF (Gral. Obligado).
Habitat: Humid areas, cultivated fields (OCC, ORI).
Uses: Medicinal. (Zardini, 1984, Kalesnik y Malvarez, 1996).
Specimens Examined: CH (Shultz 228, LP), COR (Schinini & Ahumada 12677, LP), FO (Bordón 218, BAB), SE (Molina 3030 & Hilfer, BAB), SF (Job 929, LP).

3. Tribe **CARDUEAE**, 5 genera, 8 species.

1. Cypselas with lateral or subbasal articulation.....2
-. Cypselas with basal articulation.....3
2. Phyllaries foliaceous or with leaves longer than involucre.....2. *Carthamus*
-. Phyllaries not foliaceous.....3. *Centaurea*
3. Phyllaries marginally spiny. Anther filaments fused.....5. *Silybum*
-. Phyllaries marginally entire. Anther filaments free.....4
4. Pappus of simple bristles.....1. *Carduus*
-. Pappus of plumose bristles.....4. *Cirsium*

1. **CARDUUS** L., 1 species.

1. **Carduus thoermeri** Weinm.
Syn: *Carduus leiophyllus* Petrovic - *C. macrocephalus* Desf. - *C. macrolepis* Peterm. - *C. nutans* auct. non L. var. *macrocepahlus* auct. non (Desf.) Fiori & Bég. - *C. nutans* L. ssp. *macrolepis* auct. non (Peterm.) Kazmi
Iconography: Cabrera: 280, fig. 286. 1971b (sub *Carduus nutans* ssp. *macrolepis*).

Vernacular: "Cardo", "c. del caballo", "c. pendiente".
Habit: Annual herb.
Flowering period: September-December.
Status: Adventive.
Distribution: CO (Santa María), SE (Choya).
Habitat: Ruderal weed, raildroads, roads (OCC).
Uses: Unknown.
Specimens Examined: CO (Brusch s/nº, BA), SE (Pérez Moreau et al. 4643, BAB).

2. **CARTHAMUS** L., 1 species

1. **Carthamus lanatus** L.

Syn: *Kentrophyllum lanatum* (L.) DC. & Duby
Iconography: Cabrera: 287, fig. 293. 1971b.
Vernacular: "Cardo cruz", "c. chileno", "c. lanudo", "c. del diablo", "manca potrillo".
Habitat: Annual herb.
Flowering period: September-December.
Status: Adventive.
Distribution: SE (Rivadavia).
Habitat: Ruderal weed, roads, railroads, cultivated, disturbed places (OCC).
Uses: Medicinal (Zardini, 1984), resolvent (Marzocca, 1997).
Specimes Examined: SE (A.T. Hunziker 10466, CORD).

3. **CENTAUREA** L., 4 species.

1. Phyllaries with a linear-laciniate apical appendage.....4. *C. tweediei*
-. Phyllaries with an apical, long, stiff spine
2 . Corollas white, pink, or violet.....1. *C. calcitrapa*
-. Corollas yellow.....2
3. Phyllary spines 4-7 mm long.....2. *C. melitensis*
-. Phyllary spines 10-25 mm long.....3. *C. solstitialis*

1. **Centaurea calcitrapa** L.
Iconography: Cabrera: 466, fig. 275. 1974.
Vernacular: "Abrepuño", "a. colorado", "calcitrapa", "cardo abrepuño","c. estrellado", "trepa caballo".
Habitat: Annual herb.
Flowering period: September-December.
Status: Adventive.
Distribution: CH (Mayor Fontana).
Habitat: Ruderal weed, raildroads (ORI).
Uses: Diuretic, intermittent fever, medicinal, febrifugal, gallstones, fistula, calculus, antiseptic, depurative, antihypertensive, hepatic, diuretic (Freire & Urtubey, 1999a).
Specimes Examined: CH (Schulz 10868, BAB).
Obs.: Toxic for cattle (Freire et al., 2005).

2. **Centaurea melitensis** L.
Iconography: Cabrera: 287, fig. 295. 1974.
Vernacular: "Abrepuño amarillo".
Habitat, Annual or biennual herb.
Flowering period: September-December.
Status: Adventive.
Distribution: CH (Bermejo, Gral. Vedia, Mayor Fontana), SE (Ojo de Agua, Robles).
Habitat: Ruderal weed, railroads, stubbe field, ravines, rocky places, road banks (OCC, ORI).
Uses: Diaforetic, febrifugal, tonic, sudorific, diuretic (Freire & Urtubey,1999a).
Specimens Examined: CH (Schulz 2724 , LP), SE (Pérez Moreau et al. 4237, BAB).
Obs.: Toxic for cattle (Freire et al., 2005).

3. **Centaurea solstitialis** L.
Iconography: Cabrera: 290, fig. 296. 1971b.
Vernacular: "Abrepuño amarillo".
Habitat: Annual or biennual herb.
Flowering period: September-December.
Status: Adventive.
Distribution: CH (1º de Mayo), CO (San Alberto).
Habitat: Ruderal weed (OCC, ORI).
Uses: Gallstones, fistula, calculus, antimicrobic (Freire & Urtubey, 1999a).
Specimens Examined: CH (Schulz 9057, BAB), CO (BA 73636).
Obs.: Toxic for cattle (Freire et al., 2005).

4. **Centaurea tweediei** Hook. & Arn.
Iconography: Cabrera: 470, fig. 278. 1974.
Vernacular: Unknown.
Habitt: Annual herb.
Flowering period: September-December.
Status. Native.

Distribution: CH (Bermejo, Gral. Donovan, 1° de Mayo, San Fernando, Sgto. Cabral), COR (Bella Vista), SF (Gral. Obligado, Reconquista).
Habitat: Sandy places near of rivers, streams (ORI).
Uses: Diafiretic, diuretic, cholagogue, digestive, febrifugal (Freire & Urtubey, 1999a).
Specimens Examined: CH (Delucchi et al. 1970, BAB, LP), COR (Cáceres 140, BAB), SF (BA 25355).

4. **CIRSIUM** Miller, 1 species.

1. **Cirsium vulgare** (Savi) Ten.
Syn: *Carduus lanceolatus* L. .- *Cirsium lanceolatum* (L.) Scop. - C. *vulgare* (Savi) Airy-Shaw
Iconography: Cabrera: 460, fig. 272. 1974.
Vernacular: "Cardo", "c. negro".
Habit: Annual herb.
Flowering period: September-January.
Status: Adventive.
Distribution: FO (Pirané), SF (Gral. Obligado).
Habitat: Ruderal weed, roads, railroads, cultivated, disturbed places (ORI).
Uses: Medicinal, antibiotic, antimicrobic (Freire & Urtubey, 1999a).
Specimes Examined: FO (Cabral & Molina 1075, BAB), SF (Quarín 630, BAA).
Obs.: Toxic for cattle (Freire et al., 2005).

5. **SILYBUM** Adans., 1 species.

1. **Silybum marianum** (L.) Gaertn.
Syn: *Carduus marianus* L.
Iconography: Cabrera: 283, fig. 290. 1971b.
Vernacular: "Cardo", "c. asnal", "c. blanco","c. mariano".
Habitat: Annual or biennual herb.
Flowering period: September-December.
Status: Adventive.
Distribution: CH (San Fernando).
Habitat: Ruderal weed, cultivated areas, disturbed places (ORI).
Uses: Antipleuritic, calculus, tonic, stomatic (González et al., 1939), blood vomit, spleen diseases, emetic, medicinal, febrifugal, resolvent, intermittent fever, hepatic diseases, hemostatic, icterus, hydropsy, urinary disease (Freire & Urtubey, 1999a).
Specimens Examined: CH (Schulz,189, LP).
Obs.: Toxic for cattle (Freire et al., 2005).

4. Tribe **EUPATORIEAE**, 5 genera, 63 species, 7 varieties

1. Pappus wanting.....3. *Gymnocoronis*
- Pappus present.....2
2. Pappus of scales or bristle-like awns.....3
- Pappus of scabrid bristles.....4
3. Involucre cylindrical. Phyllaries 5 or 6.....5. *Stevia*
- Involucre hemispherical. Phyllaries more than 6.....1. *Ageratum*
4. Capitula with 4 subequal phyllaries and 4 florets.....4. *Mikania*
- Capitula with more than 4 subequal phyllaries, usually more than 4 florets....2. *Eupatorium*

1. **AGERATUM** L., 1 species

1. **Ageratum conyzoides** L.
Syn: *Ageratum hirtum* Lam. - *A. hirsutum* Poir. - *Carelia conyzoides* (L.) Kuntze
Iconography: Cabrera: 88, fig. 34. 1978.- Cabrera: 15, fig. 3. 1996.
Vernacular: "Ageratun", "catinga de bode", "nyambi", "quebra pedra", "bluetop", "goat weed".
Habit: Annual herb.
Flowering period: May, June, October.
Status: Adventitious.
Distribution: CH (Unknown), COR (Bella Vista), JU (Ledesma), SA (Anta).
Habitat: Disturbed soils (ORI, OCC).
Uses: Febrifugal, analgesic, anticatarrhal, skin infections, gastrointestinal disorders, etc. (Freire & Urtubey, 2000a).
Specimens Examined: CH (not seen), CO (Pire et al. 373, LP), JU (Fabris 4422, LP), SA (Brown et al. 1382, LP).

2. **EUPATORIUM** L., 40 species (2 endemic), 5 varieties (1 endemic).

1. Receptacle convex, hemispherical or conical.....2

- Receptacle flat or concave....8
2. Receptacle paleate. Leaves hastate....26. *E. militare*
- Receptacle epaleate....3
3. Receptacle pilose....4
- Receptacle glabrous....5
4. Phyllaries acute....23. *E. macrophyllum*
- Phyllaries attenuate into a long, densely glandular appendage....13. *E. hecatanthum*
5. Phyllaries in 4-5 deciduous series....10. *E. clematideum*
- Phyllaries in 2-3 persistent series....6
6. Involucre 12-20 mm high....22. *E. macrocephalum*
- Involucre 10 mm or less high....7
7. Involucre 3-3.5 mm high. Florets 30-40. Leaf blades ovate-lanceolate or lanceolate, base cuneate. Cypselas glabrous....7. *E. candolleanum*
- Involucre 7-10 mm high. Florets 40-50. Leaf blades ovate-deltoid, base rounded. Cypselas sparsely pubescent on ribs....33. *E. purpurascens*
8. Capitula 3-5(6)-flowered....9
- Capitula 7-flowered....11
9. Leaf blades ovate-deltoid....3. *E. arnottii*
- Leaf blades lanceolate....10
10. Leaves sessile, linear-lanceolate....6. *E. bupleurifolium*
- Leaves petiolate, leaf blades elliptic-lanceolate....31. *E. polystachyum*
11. Phyllaries in 2-3 equal in length series....12
- Phyllaries in 3 to many unequal and graduated in length series....14
12. Leaf blades deeply lobed....4. *E. artemisiifolium*
- Leaf blades entire or serrate....13
13. Herbs. Leaves alternate, leaf blades deltoid, base cordate. Florets 25-30....25. *E. mikaniifolium*
- Subshrub usually scandent. Leaves opposite, leaf blades ovate, base rounded or cordate. Florets 10-15....35. *E. solidaginoides*
14. Involucre cylindrical. Phyllaries densely imbricated, totally deciduous....15
- Involucre campanulate or turbinate (rarely cylindrical). Phyllaries from weakly to strongly subimbricate, usually persistent....27
15. Peduncles glabrous or glabrescent. Plants glabrous....16
- Peduncles pubescent. Plants pubescent....17
16. Capitula 17-20-flowered. Leaf blades broadly ovate....19. *E. laevigatum*
- Capitula 8-12-flowered. Leaf blades elliptic-lanceolate or elliptic....24. *E. megaphyllum*
17. Phyllaries with rounded or acute apex....18
- Phyllaries with expanded, herbaceous or coloured apex....24
18. Plants hirsute....40. *E. verbenaceum*
- Plants pubescent (without hirsute trichomes) or glabrous....19
19. Leaf blades ovate-deltoid. Scandent shrub....27. *E. odoratum*
- Leaf blades ovate-lanceolate or lanceolate. Erect subshrubs o shrubs....20
20. Leaf blades ovate-elliptic or ovate-lanceolate....21
- Leaf blades lanceolate....22
21. Leaf blades ovate-lanceolate, 1-3 cm wide, sparsely pubescent on upper surface and densely pubescent on lower surface....30. *E. pedunculosum*
- Leaf blades ovate-elliptic, 3-5 cm wide, sparsely pubescent or glabrescent on both surfaces....15. *E. hookerianum*
22. Leaves pubescent. Phyllary apex subtruncate and slightly differentiated..2. *E. arnottianum*
- Leaves glabrous or pubescent on nerves. Phyllary apex rounded or acute, not differentiated....23
23. Capitulescences corymbose. Phyllaries apically rounded....9. *E. christeanum*
- Capitulescences paniculate. Phyllaries apically attenuate, inner phyllaries acute....28. *E.orbygnianum*
24. Leaf blades lanceolate-rhombic to linear....17. *E. ivifolium*
- Leaf blades ovate....25
25. Leaves minutely petiolate or sessile, usually alternate....37. *E. subhastatum*
- Leaves petiolate, opposite....26
26. Involucre broadly cylindrical. Capitulescences with laxly corymbose branches (peduncles 1.5-3 cm). Capitula 20-60-flowered....36. *E. squarroso-ramosum*

- Involucre cylindrical. Capitulescences with densely corymbose branches (peduncles to 2 cm). Capitula 10-flowered....14. *E. hirsutum*
27. Leaf blades somewhat deeply lobed or bipinnatisect....28
- Leaf blades entire or serrate....30
28. Leaf blades deeply lobed....11. *E. commersonii*
- Leaf blades bipinnatisect....29
29. Small branched shrubs. Leaf segments filiform, 0.5-1 mm wide....8. *E. ceratophyllum*
- Subshrubs, stems simple or few branched. Leaf segments linear, 2-5 mm wide....38. *E. tanacetifolium*
30. Leaf blades ovate, petiolate, petiole wingless....31
- Leaf blades lanceolate or ovate-rhombic, petiole winged, minutely petiolate or sessile....37
31. Spreading shrubs. Involucre 7-8 mm high....29. *E.patens*
- Erect subshrubs or shrubs....32
32. Capitula 20-30-flowered....33
- Capitula 7-15-flowered....35
33. Capitulescences densely cymose-branched....1. *E. argentinum*
- Capitulescences laxly cymose-branched....34
34. Involucre 6 mm high, 3-seriate....12. *E. dissolvens*
- Involucre 4-5 mm high, 4-5-seriate....34. *E. schickendantzii*
35. Leaves densely tomentose on lower surface....5. *E. balansae*
- Leaves sparsely pubescent or glabrescent....36
36. Leaf blades ovate-deltoid, long-petiolate (blades 5 times longer than the petiole). Cymes slender. Phyllaries 2-ribbed....32. *E. pseudoprasiifolium*
- Leaf blades ovate or ovate-lanceolate, short-petiolate (blades 8 times longer than the petiole). Cymes dense. Phyllaries 3-ribbed....21. *E. lilloi*
37. Leaf blades lanceolate....38
- Leaf blades ovate-rhombic....39
38. Leaves glabrous....18. *E. laetevirens*
- Leaves densely pubescent....39. *E. tweedianum*
39. Shrubs. Leaf blades rounded or attenuate at the base....16. *E. inulifolium*
- Perennial herbs. Leaf blades deltoid at the base....20. *E. lanigerum*

1. **Eupatorium argentinum** Ariza
Syn: *Eupatorium prasiifolium* Griseb. - *Fleischmannia prasiifolia* (Griseb.) R. King & H. Rob.
Iconography: Cabrera: 117, fig. 48 G-I. 1978 (sub *Eupatorium prasiifolium*).
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: January, May.
Status: Native.
Distribution: CH (1° de Mayo), FO (Pirané), SE (Gral. Taboada).
Uses: Unknown.
Habitat: Woods (ORI, OCC).
Specimens Examined: CH (Schulz 242, LP), FO (Morel 603, LIL), SE (Renolfi 345, BAB).

2. **Eupatorium arnottianum** Griseb.
Syn: *Chromolaena arnottiana* (Griseb.) R. King & H. Rob.
Iconography: Cabrera: 146, fig. 63. 1978.
Vernacular: "Uoué".
Habit: Subshrub.
Flowering period: January, February, May.
Distribution: CH (Mayor Fontana), CO (Rio Seco), COR (Capital), FO (Pilagás, Pirané), SE (Capital, Gral. Taboada), TU (Leales).
Status: Native.
Habitat: Pasture ground (ORI, OCC).
Uses: Medicinal (Zardini, 1984).
Specimens Examined: CH (Rodrigo 2399, LP), CO (Sayago 3186, LP), COR (Schinini 8607, LP), FO (Morel 7716, CTES), SE (Bianchi 13, LIL), TU (Venturi 726, LP).

3. **Eupatorium arnottii** Baker
Syn.: *Austrobrickellia arnottii* (Baker) R. King & H. Rob. - *Eupatorium tenuiflorum* (Griseb.) Hieron. -*Mikania scandens* var. β Hook. & Arn. - *M. tenuiflora* Griseb.
Iconography: Cabrera: 146, fig. 49. 1978.
Vernacular: Unknown.
Flowering period: December-May.
Status: Native.
Distribution: CH (Maipú), JU (Santa Barbara), SE (Copo).
Habitat: Wet places (OCC).
Uses: Unknown.

Specimens Examined: CH (Schulz 15621, BAB), JU (Cabrera et al. 14567, LP), SE (Roic 621, BAB).

4. **Eupatorium artemisiifolium** Griseb.
Syn.: *Gyptis artemisiifolia* (Griseb.) R. King & H. Rob.
Iconography: Cabrera: 210, fig. 110. 1974.
Vernacular: Unknown.
Flowering period: January-July.
Status: Native.
Distribution: CO (Rio Seco).
Habitat: OCC.
Uses: Unknown.
Specimen Examined: CO (Zuti 4178, LP).

5. **Eupatorium balansae** Hieron.
Syn.: *Bejaranoa balansae* (Hieron.) R. King & H. Rob. - *Eupatorium balansae* var. *menthoides* Chodat - *E. balansae* var. *reticulatum* (Chodat) Chodat - *E. balansae* f. *foliosum* Chodat - *E. bracteatum* var. *reticulatum* Chodat
Iconography: King & Robinson: 99, tab. 21. 1987, Cabrera: 42, fig. 11. 1996.
Vernacular: Unknown.
Habit: Shrub.
Flowering period: November, February.
Status: Native.
Distribution: FO (Matacos, Patiño).
Habitat: Sandy soils (OCC).
Uses: Unknown.
Specimens Examined: FO (Maranta 365, SI).

6. **Eupatorium bupleurifolium** DC.
Syn.: *Campovassouria bupleurifolia* (DC.) R. King & H. Rob. - *C. cruciata* (Vell.) R. King & H. Rob. - *Chrysochoma cruciata* Vell .- *Eupatorium asclepiadeum* DC. - *E. bupleurifolium* var. *asclepiadeum* (DC.) Baker - *E. bupleurifolium* var. *ensifolium* (Griseb.) Hieron. - *E. bupleurifolium* var. *linifolium* (DC.) Baker - *E. cruciatum* (Vell.) Ariza - *E. ensifolium* Griseb. - *E. graminifolium* Chodat - *E. linifolium* DC.
Iconography: Baker: tab.87. 1876.- Cabrera: 200, fig. 103. 1974.- King & Robinson: 80, tab. 11. 1987.- Cabrera & Klein: 521, fig. 130. 1991(1989).- Cabrera: 117, fig. 48 A-F. 1978.- Cabrera: 49 fig. 14. 1996.
Vernacular: Unknown.
Flowering period: December-June.
Status: Shrub.
Distribution: CH (Unknown).
Habitat: Open fields.
Uses: Unknown.
Specimens Examined: CH (Jörgensen 1417, SI).

7. **Eupatorium candolleanum** Hook. & Arn.
Syn.: *Barrosoa candolleana* (Hook. & Arn.) R. King & H. Rob. - *Eupatorium candolleanum* var. *lancifolium* Baker - *E. candolleanum* var. *paranensis* Baker - *E. palustre* var. *guaraniticum* Chodat - *E. palustre* var. *verbenaceum* Chodat
Iconography: Cabrera: 179-180, fig. 87-88 a-b. 1974.- King & Robinson: 93, tab. 17. 1987 (sub *Barrosoa candolleana*).- Cabrera & Klein: 629, fig. 151. 1991(1989).- Cabrera: 56 fig. 17. 1996.
Vernacular: "Tabaco del monte".
Habit: Perennial herb.
Flowering period: November-March, May.
Status: Native.
Distribution: CH (Gral. Donovan, Mayor Fontana, 1° de Mayo, San Fernando), COR (Bella Vista, Empedrado, San Luis del Palmar, San Roque), FO (Pilagás, Pilcomayo), SF (Gral. Obligado).
Habitat: Moist fields and "esteros" (ORI).
Uses: Medicinal (Freire & Urtubey, 1999b).
Specimens Examined: CH (Alboff 1004, LP), COR (Krapovickas & Irigoyen 17843, LP),), FO (Morel 7333, CTES), SF (Quarín 703, LP).

8. **Eupatorium ceratophyllum** Hook. & Arn.
Iconography: Cabrera: 211, fig. 111 a-f. 1974.- Ariza Espinar: 48 fig. 6. 1994.
Vernacular: "Yerba amarga".
Habit: Shrublet.
Flowering period: February.
Status: Native.
Distribution: CH (Mayor Fontana, 1° de Mayo), CO (Rio Seco), COR (Saladas), SE (Aguirre), SF (9 de Julio, Vera).
Habitat: "Gredales" (ORI, OCC, SAV).
Uses: Stomacal, febrifugal, icterus, intermittent fever (Freire & Urtubey, 1999b).
Specimens Examined: CH (Boffa 1030, LP), CO (Sayago 2341, LP), COR (Krapovickas et al. 24550, LP), SE (Ragonese & Castiglioni 8616, BAB), SF (Job 1104, LP).

9. **Eupatorium christieanum** Baker
Syn.: *Chromolaena christieana* (Baker) R. King & H. Rob. - *Eupatorium laevigatulum* B. L. Rob.
Iconography: Cabrera: 182, fig. 90. 1974.- Cabrera: 60, fig. 19 A-E. 1996.

Vernacular: "Hoja de la virgen", "llarámañik", "uoué llâlé".
Habit: Shrublet.
Flowering period: December, January, April, May.
Status: Native.
Distribution: CH (Gral. Donovan, Libertad, 1° de Mayo, San Fernando), COR (Empedrado, Saladas), FO (Formosa, Patiño, Pilagás, Pilcomayo, Pirané), SF (Gral. Obligado, Vera).
Habitat: Open places in woods, stony soils, 50 m (ORI, SAV).
Uses: Renal diseases (Freire & Urtubey, 1999b).
Specimens Examined: CH (Birabén 62, LP), COR (Pedersen 3886, LP), FO (Krapovickas 961, LP), SF (Tedone 5106, LP).

10. **Eupatorium clematideum** Griseb.
Syn.: *Eupatorium urticifolium* var. *clematideum* (Griseb.) Hieron. ex Kuntze - *E. urticifolium* var. *nanum* Hieron. ex Kuntze - *Praxelis clematidea* (Griseb.) R. King & H. Rob.
Iconography: Cabrera: 176, fig. 85 i-l. 1974.- Cabrera: 113, fig. 46 f-h. 1978.- Cabrera: 60, fig. 19 F-H. 1996.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: November-February, May.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando, Mayor Fontana), COR (Bella Vista, Empedrado, San Luis del Palmar), FO (Pilagás), SF (Gral. Obligado), SE (Capital, Choya, Guasayán, Robles).
Habitat: Open places in woods, along road, border of cultivated fields (ORI, OCC).
Uses: Unknown.
Specimens Examined: CH (Schulz 60, LP), COR (Boelcke 1553, LP), SE (Vilmer, 324, LP), SF (Job 986 LP).

11. **Eupatorium commersonii** (Cass.) Hieron.
Syn.: *Eupatorium bacleanum* DC. - *E. commersonii* var. *dentata* Speg. - *E. commersonii* var. *pinnata* Speg. - *Gyptis commersonii* Cass.
Iconography: Cabrera: 209, fig. 109 a-h. 1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: November.
Status: Native.
Distribution: SE (Ojo de Agua).
Habitat: Mountain places (OCC).
Uses: Unknown.
Specimen Examined: SE (Balegno 159, LIL).

12. **Eupatorium dissolvens** Baker
Syn.: *Fleischmannia dissolvens* (Baker) R. King & H. Rob.
Iconography: Cabrera: 202, fig. 105. 1974.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: March.
Status: Native.
Distribution: CH (12 de Octubre), SE (Copo).
Habitat: Border of woods (OCC).
Uses: Unknown.
Specimens Examined: CH (Schulz 8935, LP), SE (Molina & Hilfer 3184. BAB).

13. **Eupatorium hecatanthum** (DC.) Baker
Syn.: *Eupatorium populifolium* Hook. & Arn. - *Hebeclinium hecatanthum* DC. - *H. urolepis* DC. - *Urolepis hecatantha* (DC.) R. King & H. Rob.
Iconography: Cabrera: 41, fig. 7. 1963.- Cabrera: 176, fig. 85 a. 1974.- Cabrera: 110, fig. 44 A-G. 1978.- King & Robinson: 91: tab. 6. 1987 (sub *Urolepis hecatantha*).- Cabrera & Klein: 632, fig. 152. (1989) 1991.- Cabrera: 79, fig. 26. 1996.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: November-January, March-May.
Status: Native.
Distribution: CH (Bermejo, 12 de Octubre, Mayor Fontana, 1° de Mayo, San Fernando), COR (Capital), SA (Orán), FO (Formosa, Laishi, Herradura, Patiño, Pilcomayo, Pirané), SF (Gral. Obligado), SE (Capital, Figueroa, Robles). TU (Capital).
Habitat: "Selva en galería", moist soils (ORI, OCC).
Uses: Medicinal (Freire & Urtubey, 1999b).
Specimens Examined: CH (Fortunato 1737 et al., BAB), CO (Rodrigo 915, LP), FO (Krapovickas 1018, LP), SE (Flores s.n., LP), SF (Ragonese 3229 LP), TU (Venturi 101, LP).

14. **Eupatorium hirsutum** Hook. & Arn.
Syn.: *Chromolaena hirsuta* (Hook. & Arn.) R. King & H. Rob. - *Eupatorium congestum* var. *hirsutum* (Hook. & Arn.) Cabrera - *E. congestum* var.

truncatum Hassl. - *E. hirsutum* var. α Hook. & Arn. - *E. hirsutum* var. *triseriale* Hassl. - *E. tozziifolium* var. *subpetiolatum* Chodat
Iconography: Cabrera: 81, fig. 27. 1996.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: March, April.
Status: Native.
Distribution: CH (1° de Mayo).
Habitat: High fields (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 69, LP).

15. **Eupatorium hookerianum** Griseb.
Syn.: *Chromolaena hookeriana* (Griseb.) R. King & H. Rob. - *C. jujuiense* (Hieron.) R. King & H. Rob. - *Eupatorium ciliatum* Hook. & Arn. - *E. conyzoides* Griseb. - *E. conyzoides* var. *ciliatum* (Hook. & Arn.) Hieron. - *E. hookerianum* var. *jujuiense* (Hiern.) Cabrera & Vittet. - *E. jujuiense* Hieron.
Iconography: Cabrera: 153, fig. 67. 1978.
Vernacular: Unknown.
Habit: Shrub.
Flowering period: February, March.
Status: Native.
Distribution: CO (Colón).
Habitat: OCC.
Uses: Unknown.
Specimens Examined: CO (Hunziker 7414, LP).

16. **Eupatorium inulifolium** Kunth
Syn.: *Austroeupatorium entreriense* (Hieron.) R. King & H. Rob. - *A. inulifolium* (Kunth) R. King & H. Rob. - *Eupatorium entreriense* Hieron. - *E. inulifolium* f. *suaveolens* (Kunth) Hieron. - *E. molle* Kunth - *E. pallidum* Hook. & Arn. - *E. pallescens* DC. - *E. pallescens* var. *bonariense* DC. - *E. pallescens* var. *hirsuta* DC. - *E. paranense* Hook. & Arn. - *E. suaveolens* Kunth
Iconography: Cabrera: 205, fig. 107. 1974.- Cabrera: 139, fig. .60 f-h. 1978.- King & Robinson: 68, tab. 5. 1987 (sub *Austroeupatorium inulaefolium*).- Cabrera & Klein, 588, fig. 142. 1991(1989).- Cabrera: 84, fig. 28. 1996.
Vernacular: "Doctorcito", "uashitók-olé".
Flowering period: February, March.
Status: Native.
Distribution: CH (Napalpi, 1° de Mayo), CO (Rio Seco), COR (Empedrado), FO (Patiño, Pilcomayo), SF (9 de Julio), SE (Figueroa), TU (Capital).
Habitat: "Montes" (ORI, OCC, SAV).
Uses: Promoter of menstruation, abortifacient, contraceptive (Freire & Urtubey, 1999b).
Specimens Examined: CH (Malvarez 1065, CTES), CO (Xifreda & Maldonado 621, LP), COR (Pedersen 6996, LP), FO (Fortunato 6287 et al., BAB), SE (Molina & Hilfer 2764, BAB), SF (Job 1160, LP), TU (Venturi 163, LP).

17. **Eupatorium ivifolium** L.
Syn.: *Chromolaena ivifolia* (L.) R. King & H. Rob. - *Eupatorium affine* Hook. & Arn. - *E. conyzoides* var. *affine* (Hook. & Arn.) Baker - *E. ivifolium* var. *genuinum* Hassl. - *E. ivifolium* var. *hirsutum* Hassl. - *E. ivifolium* var. *ivifolium* - *E. ivifolium* var. *perturbinatum* B. L. Rob. - *E. ivifolium* var. *pilcomayense* Hassl. - *E. luquense* Chodat
Iconography: Cabrera:184-185, fig. 91-92. 1974.- Cabrera: 86, fig. 29. 1996.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: January-May, October.
Status: Native.
Distribution: CH (12 de Octubre, Libertador Gral. San Martín, Mayor Fontana, 1° de Mayo, 25 de Mayo), COR (Empedrado, Saladas), FO (Formosa, Patiño, Pilagás, Pilcomayo, Pirané), SE (Gral. Belgrano, Figueroa, Gral. Taboada, Guasayán).
Habitat: "Cañadas", pasture fields, border of woods, wet soils in low depressions, 30 m (ORI, OCC).
Uses: Unknown.
Specimens Examined: CH (Schulz 8945, CTES), COR (Pedersen 5494, LP), FO (Schulz 16962, BAB), SE (Unamuno 71, CTES).

18. **Eupatorium laetevirens** Hook. & Arn.
Syn.: *Austroeupatorium laetevirens* (Hook. & Arn.) R. King & H. Rob. - *Eupatorium steviifolium* var. *laetevirens* (Hook. & Arn.) Baker - *E. steviifolium* var. *salicinum* Chodat
Iconography: Cabrera: 92, fig. 32. 1996.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: May, June.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando).

Habitat: Moist and rocky soils (ORI).
Uses: Unknown.

Specimen Examined: CH (Schulz 259, LP).

19. **Eupatorium laevigatum** Lam.

1. Leaves broadly ovate, margins conspicuously serrate.....var. *laevigatum*
- Leaves lanceolate, margins minutely serrate (teeth 1.5-2 mm long) .....var. *arenarium*

a) var. **laevigatum**
Syn.: *Chromolaena laevigata* (Lam.) R. King & H. Rob. - *Eupatorium laevigatum* var. *longepetiolatum* Hassl. - *E. laevigatum* var. *psidiifolia* (DC.) Hassl. - *E. psidiifolium* DC.
Iconography: Cabrera: 181, fig. 89. 1974.- Cabrera: 149, fig. 65. 1978.- Cabrera & Klein: 459, fig. 118. 1991 (1989).- Cabrera: 95, fig. 33. 1996
Vernacular: "Caá-hú", "doctorcito", "ivirú-retimá", "sanatodo", "yuyo negro".
Habit: Shrub.
Flowering period: February, March, May, July.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), COR (San Cosme), FO (Pilagás, Pilcomayo), SE (Gimenez).
Habitat: Moist soils, open places, border of forest (ORI, OCC).
Uses: Headache, antiseptic, purgative (Marzocca, 1997), cathartic, analgesic (Amat, 1983), abortifacient, promoter of menstruation (Martínez Croveto, 1981).
Specimens Examined: CH (Schulz 157, LP), COR (Benitez et al., 124 LP), FO (Morel 7769, CTES), SE (Luna 1200, LIL).

b) var. **arenarium** Baker
Iconography: -
Vernacular: Unknown.
Habit: Shrub.
Flowering period: December, March, April.
Status: Native.
Distribution: COR (Saladas).
Habitat: ORI.
Uses: Unknown.
Specimen Examined: COR (Schinini et al. 6407, LP)

20. **Eupatorium lanigerum** Hook & Arn.
1. Leaves rhombic-ovate with 12-18 teeth on each side.....var. *lanigerum*
- Leaves rhombic-lanceolate with 6-10 teeth on each side.....2
2. Leaves minutely serrate (teeth as long as wide).....var. *crassipes*
- Leaves subpinnatifid (teeth, at least the lowers longer than wide).....var. *minus*

a) var. **lanigerum**
Syn.: *Eupatorium alternifolium* var. *asperum* Hassl. - *E. alternifolium* var. *hispidulum* Hassl. - *E. alternifolium* var. *vernoniopsis* Hassl. - *E. lanigerum* var. *typicum* B. L. Rob. - *E. oblongifolium* subvar. *hirsutum* Chodat - *E. vernoniopsis* Sch. Bip. ex Baker - *Gyptis lanigera* (Hook. & Arn.) R. King & H. Rob.
Iconography: Cabrera: 209, fig. 109. 1974.- Cabrera: 128, fig. 54 (bis.). 1978.- Cabrera: 98, fig. 34. 1996.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: March.
Status: Native.
Distribution: CH (1° de Mayo), FO (Unknown), COR (Empedrado).
Habitat: High fields (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 72, LP), COR (Pedersen 2637, LP), FO (Jörgensen 2763, SI).

b) var. **crassipes** (Hieron.) B. L. Rob.
Syn.: *Eupatorium crassipes* Hieron. - *E. hunzigeri* Hieron. - *E. lanigerum* var. *minor* Hook. & Arn.
Iconography: Cabrera: 207, fig. 108. 1974.- Cabrera & Klein: 562, fig. 137. 1991 (1989).
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: April, November.
Status: Native.
Distribution: CH (San Fernando).
Habitat: ORI.
Uses: Unknown.
Specimens Examined: CH (Alboff s.n. 8/XI/1896, LP).

c) var. **minus** Hook. & Arn.
Iconography: -
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: February.
Status: Endemic.
Distribution: CH (Quitilipi).
Habitat: Fertile prairies (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 2651, LP).

21. **Eupatorium lilloi** B. L. Rob.
Syn.: *Idiothamnus lilloi* (B. L. Rob.) R. King & H. Rob.
Iconography: Cabrera: 141, fig. 61. 1978.- Cabrera: 102, fig. 36. 1996.
Vernacular: Unknown.
Habit: Shrub.
Flowering period: January.
Status: Native.
Distribution: SE (Guasayán).
Habitat: (OCC).
Uses: Unknown.
Specimens Examined: SE (Burkart 20345, LP).

22. **Eupatorium macrocephalum** Less.
Syn.: *Campuloclinium macrocephalum* (Less.) DC. - *Chromolaena pratensis* Gardner - *Conoclinium macrocephalum* var. *strigosum* DC. - *Eupatorium denudatum* Chodat - *E. donianum* Hook. & Arn. - *E. macrocephalum* var. *angustifolium* Baker - *E. macrocephalum* var. *stigmatosum* (Chodat) Hassl. - *E. stigmatosum* Chodat - *E. stigmatosum* var. *subcalvatum* Chodat - *E. stigmatosum* var. *violaceum* Chodat
Iconography: Cabrera: 177, fig. 86. 1974.- Cabrera: 109, fig. 45. 1978.- Cabrera: 109, fig. 38. 1996.
Vernacular: "Illa ka'ik", "inambú ca'a guasú", "lancú-kachú", "teyú ca'a", "t. caá".
Habit: Perennial herb.
Flowering period: December-February.
Status: Native.
Distribution: CH (Mayor Fontana, 1° de Mayo, 25 de Mayo), COR (Empedrado, Goya, Lavalle), FO (Formosa, Patiño, Pilagás, Pilcomayo, Pirané), SF (Gral. Obligado), SE (Gral. Taboada), TU (Graneros).
Habitat: Moist fields (OCC, ORI).
Uses: Stomacal, digestive, cough, abortifacient (Freire & Urtubey, 1999b)
Specimens Examined: CH (Boffa 1026, LP), COR (Pedersen 3044, LP), FO (Krapovickas 993, LP), SE (Elisetch 332, BAB), SF (Job 790, LP), TU (Venturi 1559, LP).

23. **Eupatorium macrophyllum** L.
Syn.: *Hebeclinium macrophyllum* (L.) DC.
Iconography: Baker: tab. 92. 1876.- Fawcett & Rendle: fig. 54. 1936- King & Robinson: 400, fig. 160. 1987- Cabrera & Klein: 637, fig. 153. 1991(1989).- Cabrera: 112, fig. 39. 1996.
Vernacular: Unknown.
Habit: Shrub.
Flowering period: December-February.
Status: Native.
Distribution: CH (Unknown), FO (Formosa).
Habitat: (ORI).
Uses: Unknown.
Specimens Examined: CH (not seen), FO (Jörgensen 3228, SI).

24. **Eupatorium megaphyllum** Baker
Syn.: *Critonia megaphylla* (Baker) R. King & H. Rob.
Iconography: Cabrera: 147, fig. 64. 1978.- Cabrera: 120, fig. 44. 1996.
Vernacular: Unknown.
Habit: Subshrub or herb.
Flowering period: July, August, March.
Status: Native.
Distribution: CH (1° de Mayo), FO (Laishi, Pilcomayo, Pirané), JU (Santa Barbara).
Habitat: Woods, forest (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 196, LP), FO (Krapovickas 13102, LP), JU (Cabrera 15740, LP).

25. **Eupatorium mikaniifolium** B. L. Rob.
Syn.: *Bishovia mikaniifolia* (B. L. Rob.) R. King & H. Rob.
Iconography: -
Vernacular: Unknown.
Habit: Probably perennial herb.
Flowering period: Unknown.
Uses: Unknown.
Status: Endemic.
Distribution: CH (9 de Julio).
Habitat: (ORI, OCC).
Uses: Unknown.
Specimens Examined: CH (Schulz 237, GH holotype).

26. **Eupatorium militare** B.L. Rob.
Syn.: *Gyptidium militare* (B.L. Rob.) R. King & H. Rob.

Iconography: King & Robinson: 90, tab. 15. 1987.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: February, April.
Status: Endemic.
Distribution: CH (1° de Mayo), FO (Formosa, Laishi).
Habitat: Pastures in low places, "bañados" (ORI).
Uses: Unknown.
Specimens Examined : CH (Schulz 66, LP), FO (Jörgensen 3229, LP Isotype).

27. **Eupatorium odoratum** L.
Syn.: *Chromolaena odorata* (L.) R. King & H. Rob. -*Eupatorium conyzoides* Vahl - *E. conyzoides* Mill. - *E. conyzoides* var. *paucidentatum* Baker - *E. conyzoides* var. *scaberulum* Hassl.
Iconography: Cabrera: 150, fig. 66. 1978.- Cabrera: 131, fig. 48. 1996.
Vernacular: "Pilarcito".
Habit: Scandent shrub.
Flowering period: August, September.
Status: Native.
Distribution: COR (San Cosme), FO (Pilcomayo).
Habitat: Woods, forests (ORI).
Uses: Ictiotoxic, antidiarrhoeal, febrifugal, tonic (Freire & Urtubey, 1999b).
Specimens Examined: COR (Pedersen 5511, LP), FO (Morel 6068, LIL).

28. **Eupatorium orbignyanum** Klatt
Syn.: *Chromolaena densiflora* (Morong) R. King & H. Rob. - *C. orbignyana* (Klatt) R. King & H. Rob. - *Eupatorium densiflorum* Morong - *E. oxylepis* var. *densiflorum* (Morong) Hassl.
Iconography: Cabrera: 135, fig. 49. 1996.
Vernacular: Unknown.
Habit: Shrublet.
Flowering period: January, March, April.
Status: Native.
Distribution: CH (San Fernando), COR (Capital, San Cosme), FO (Pilcomayo).
Habitat: Sandy and sunny places (ORI).
Uses: Unknown.
Specimens Examined: CH (Spegazzini in 1886, LP), CO (Pedersen 4523, LP), FO (Morel 2316, LIL).

29. **Eupatorium patens** D. Don ex Hook. & Arn.
1. Leaves concolorous, shortly pubescent.....var. *patens*
- Leaves discolorous, densely tomentose on lower surface.....var. *tomentosum*

a) var. **patens**
Syn.: *Austrobrickellia patens* (D. Don ex Hook. & Arn.) R. King & H. Rob. - *Eupatorium patagonicum* Klatt - *E. patens* Phil. - *E. patens* D. Don ex Hook. & Arn. var. *gracilior* Lorentz - *E. vattuonei* Hicken - *E. xerolepis* Sch. Bip. ex Baker
Iconography: Cabrera: 14, fig. 2. 1971b.- Cabrera: 201, fig. 104. 1974.- King & Robinson: 254, tab. 97. 1987 (sub *Austrobrickellia patens*).- Cabrera: 141, fig. 52. 1996.
Vernacular: Unknown.
Habit: Scandent shrub.
Flowering period: May.
Status: Native.
Distribution: LR (Capital), SE (Capital).
Habitat: Bush (OCC).
Uses: Unknown.
Specimens Examined: LR (Apuey 72, LP), SE (Gramajo s.n., LIL).

b) var. **tomentosum** Hieron.
Iconography: Cabrera: 120, fig. 50. 1978.
Vernacular: Unknown.
Habit: Scandent shrub.
Flowering period: May-August, January.
Status: Native.
Distribution:CH (San Fernando), CO (Empedrado), FO (Bermejo, Pilcomayo), SA (Anta), SL (Gral. Pedernera), SE (Robles).
Habitat: Sparse woods, pastures, 250 m (ORI, OCC).
Uses: Unknown.
Specimens Examined: CH (Schulz 891, LP), COR (Pedersen 2755, LP), FO (Krapovickas 1261, LP, SI), SA (Cabrera 20840, LP), SE (Maldonado 321, LP), SL (Anderson 1554, LP).

30. **Eupatorium pedunculosum** Hook. & Arn.
Syn.: *Chromolaena foliata* (Sch. Bip.) R. King & H. Rob. - *Chromolaena paraguariensis* (Hieron.) R. King & H. Rob. - *C. pedunculosa* (Hook. & Arn.) R. King & H. Rob. - *Eupatorium conyzoides* var. *foliatum* Sch. Bip. ex Baker - *E. foliatum* (Sch. Bip.) Hieron. - *E. foliatum* var. *incanum* Hieron. - *E. oxylepis* var. *paraguariense* (Hieron.) Hassl. - *E. paraguariense* Hieron.
Iconography: Cabrera: 194, fig. 99. 1974.- Cabrera & Klein: 462, fig. 119.

1991(1989).- Cabrera: 145, fig. 54. 1996.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: Unknown.
Status. Native.
Distribution: CH (Cmte. Fernández, Mayor Fontana, 1° de Mayo), COR (Empedrado, Capital), FO (Pilagás).
Habitat: Border of woods on arid places (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 928, LP), COR (Schinini 1169, LP), FO (Morel 7735, LP).

31. **Eupatorium polystachyum** DC.
Syn.: *Baccharis crenulata* Spreng. - *Eupatorium crenulatum* (Spreng.) Hieron. - *E. crenulatum* var. *tucumanense* Hieron. - *E. dendroides* Spreng. - *E. laevigatum* Griseb. - *E. pentanthum* Sch. Bip. - *E. piauhiense* Gardn. - *E. tremulum* var. ß Hook. & Arn. - *Raulinoreitzia crenulata* (Spreng.) R. King & H. Rob.
Iconography: Baker, tab. 84. 1876 (sub *Eupatorium dendroides*).- King & Robinson: 76, tab. 9. 1987(sub *Raulinoreitzia crenulata*).- Cabrera: 151, fig. 56. 1996.
Vernacular: Unknown.
Flowering period: October, February, March.
Status: Native.
Distribution: CH (1° de Mayo), COR (Empedrado), FO (Pilagás, Pilcomayo).
Habitat: Fertile fields, moist and low places (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 184, LP), COR (Quarín et al. 2287, LP), FO (Morel 7340, CTES).

32. **Eupatorium pseudoprasiifolium** Hassl.
Syn.: *Chacoa pseudoprasiifolia* (Hassl.) R. King & H. Rob. - *Eupatorium fiebrigii* Hassl. - *E. fiebrigii* var. *acuminata* Hassl.
Iconography: King & Robinson: 333, tab. 130. 1987 (sub *Chacoa pseudoprasiifolia*).- Cabrera & Klein: 600, fig. 145. 1991 (1989).- Cabrera: 153, fig. 57. 1996.
Vernacular: Unknown.
Flowering period: July, September, January.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), COR (Empedrado), FO (Unknown), SF (Gral. Obligado).
Habitat: Border of moist woods (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 33, LP), COR (Pedersen 5070, LP), FO (Jorgensen 3353, LP), SF (Quarín1190, LP).

33. **Eupatorium purpurascens** Schultz-Bip. ex Baker
Syn.: *Campuloclinium purpurascens* (Baker) R. King & H. Rob. - *Eupatorium glaziouii* Baker - *E. glaziouii* var. *molle* Hassl.
Iconography: Cabrera: 112, fig. 44 H-L. 1978.- Cabrera: 155, fig. 158. 1996.
Vernacular: Unknown.
Flowering period: April, May.
Status: Native.
Distribution: COR (Mburucuyá).
Habitat: "Embalsados", "esteros" (ORI).
Uses: Unknown.
Specimens Examined: COR (Pedersen 1704, LP).

34. **Eupatorium schickendantzii** Hieron.
Syn.: *Fleischmannia schickendantzii* (Hieron.) R. King & H. Rob.
Iconography: Cabrera: 142, fig. 62. 1978.
Vernacular: Unknown.
Habitat: Shrub.
Flowering period: April-August.
Status: Native.
Distribution: FO (Patiño).
Habitat: OCC.
Uses: Unknown.
Specimens Examined: FO (Astrada 91, BAB).

35. **Eupatorium solidaginoides** Kunth
Syn.: *Eupatorium filicaule* Sch. Bip. ex Gray - *E. stipuliferum* Rusby - *Koanophyllon solidaginoides* (Kunth) R. King & H. Rob.- *K. stipuliferum* (Rusby) R. King & H. Rob. - *Ophryosporus solidaginoides* (Kunth) Hieron.
Iconography: Cabrera: 122, fig. 51. 1978.- Cabrera: 178, fig. 68. 1996.
Vernacular: Unknown.
Habitat: Subshrub.
Flowering period: April.
Status: Native.
Distribution: CO (Capital), SA (Orán), SE (Guasayán).
Habitat: Forest (ORI, OCC).
Uses: Unknown.

Specimens Examined: COR (Schulz 2685, LP), SA (Cabrera et al. 26501, LP), SE (Rottman et al 112, SI).

36. **Eupatorium squarroso-ramosum** Hieron.
Syn.: *Chromolaena squarroso-ramosa* (Hieron.) R. King & H. Rob. - *Eupatorium affine* Hook. & Arn. - *E. ivifolium* var. *foliosum* Chodat - *E. oyadense* Hieron. - *E. oyadense* var. *paraguayense* Hieron. - *E. squarrulosum* Griseb.
Iconography: Cabrera: 190, fig. 96. 1974.- Cabrera: 131, fig. 56. 1978.- Cabrera: 181, fig. 70. 1996.
Vernacular: Unknown.
Habitat: Perennial herb.
Flowering period: November-January, April, May, July.
Status: Native.
Distribution: CH (Cmte. Fernández, Gral. Güemes, Mayor Fontana, 1° de Mayo, San Fernando), CO (Rio Seco), COR (Mburucuyá), FO (Patiño), JU (San Pedro, 500-600 m), SF (Gral. Obligado), SE (Choya), TU (Capital).
Habitat: Clay soils, border of woods (ORI, OCC).
Uses: Unknown.
Specimens Examined: CH (Schulz 913, LP), CO (Sayago 2340, LP), COR (Pedersen 4540, LP), FO (Krapovickas 1320, LP), SE (Frenguelli 107, LP), SF (Quarín 808, LP), TU (Venturi 4980, LP).

37. **Eupatorium subhastatum** Hook. & Arn.
Syn.: *Eupatorium bartsiifolium* DC. - *E. hexanthum* DC. - *E. hirsutum* var. ß Hook. & Arn. - *E. hirsutum* var. *triseriale* (Griseb.) Hieron. - *E. subhastatum* var. *hexanthum* (DC.) Malme - *E. subhastatum* var. *hirsutum* (Hook. & Arn.) Griseb. - *E. subhastatum* var. *triseriale* (Griseb.) Hieron. - *E. trichophorus* DC.
Iconography: Cabrera: 191, fig. 97 a-f. 1974.- Cabrera: 478, fig. 123 a-f. 1991(1989) - Cabrera: 189, fig. 73. 1996.
Vernacular: "Pilarcito", "piók-laadarashét", "shét", "sillo", "sillo kachú", "yerba del charrúa".
Habit: Subshrub.
Flowering period: November-March.
Status: Native.
Distribution: CH (Gral. Belgrano, Mayor Fontana, 1° de Mayo, San Fernando, 25 de Mayo), COR (Rio Seco), COR (Capital, Empedrado), FO (Patiño, Pilagás), SF (Gral. Obligado), SE (Brig. Ibarra, Moreno).
Habitat: Arid and rocky soils (ORI, OCC).
Uses: Diuretic, antirheumatic, aphrodisiac, antiphlogistic, emmenagogue, ophthalmic, vulnerary, insect bites, acne (Freire & Urtubey, 1999b).
Specimens Examined: CH (Fortunato 1643 et al., BAB), CO (Xifreda & Maldonado 620, LP), COR (Schinini 4558, LP), FO (Fortunato 2340 et al., BAB), SE (Castiglioni & Ragonese 7213, BAB), SF (Maldonado B. 1720, LP).

38. **Eupatorium tanacetifolium** Gillies ex Hook. & Arn.
Syn.: *Eupatorium erodiifolium* DC. - *E. erodiifolium* var. *obtusilobum* Hieron. - *E. pinnatifidum* DC. - *Gyptis pinnatifida* Cass.
Iconography: Cabrera: 45, fig. 8. 1963.- Cabrera: 212, fig. 111 g-l. 1974.- King & Robinson: 88, tab. 14. 1987 (sub *Gyptis pinnatifida*).- Cabrera: 193, fig. 75. 1996.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: September-February.
Status: Native.
Distribution: SE (Rivadavia).
Habitat: Rocky soils (OCC).
Uses: Unknown.
Specimens Examined: SE (Hunziker s.n., CORD).

39. **Eupatorium tweedianum** Hook. & Arn.
Syn.: *Austroeupatorium tweedianum* (Hook. & Arn.) R. King & H. Rob. - *Eupatorium erigerioides* DC. - *E. steviifolium* var. *erigerioides* (DC.) Baker - *E. steviifolium* var. *viscosum* Chodat - *Hatsbachiella tweediana.* (Hook. & Arn.) R. King & H. Rob.
Iconography: Cabrera: 204, fig. 106 a-f. 1974.- King & Robinson: 72, tab. 7. 1987 (sub *Hatsbachiella tweediana*).
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: January, April, May.
Status: Native.
Distribution: CO (San Luis del Palmar).
Habitat: Sandy soils, wet fields (ORI).
Uses: Unknown.
Specimens Examined: CO (Mroginski et al. 527, LP).

40. **Eupatorium verbenaceum** DC.
Syn.: *Eupatorium rhodolepis* Chodat - *Chromolaena verbenacea* (DC.) R. King & H. Rob.
Iconography: Cabrera & Klein: 462, fig. 119 D-E. 1991(1989).- Cabrera: 202, fig. 79. 1996.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: March-May.
Status: Native.
Distribution: CH (1° de Mayo), FO (Laishi), COR (Empedrado), SE (Choya).
Habitat: High and fertile fields, border of forests (ORI, OCC).
Uses: Unknown.
Specimens Examined: CH (Schulz 211, LP), FO (Jörgensen 2908, LIL, LP), COR (Pedersen 4548, LP), SE (Pérez Moreau & Petetin 4380, BAB).

3. **GYMNOCORONIS** DC., 1 species, 2 varieties.

Gymnocoronis spilanthoides (Hook. & Arn.) DC., *Prodr.* 7: 266. 1838.
1. Leaf blades lanceolate, attenuate at the base.....var. *spilanthoides*
-. Leaf blades ovate, subcordate or cordate at the base.....var. *subcordata*

a) var. **spilanthoides**
Syn.: *Alomia spilanthoides* Hook. & Arn. - *Gymnocoronis attenuata* DC. - *G. spilanthoides* var. *attenuata* (DC.) Baker
Iconography: Cabrera: 32, fig. 5. 1963.- Cabrera: 207, fig. 81. 1996.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: November, December.
Distribution: CH (1° de Mayo), FO (Formosa).
Status: Native.
Habitat: Stream banks, wet places (ORI).
Uses: Unknown.
Specimens Examined: CH (Delucchi 1994, LP), FO (Fortunato 6084 et al., BAB).

b) var. **subcordata** (DC.) Baker
Syn.: *G. subcordata* DC.
Iconography: Cabrera: 209, fig. 82. 1996.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: November, January-March.
Status: Native.
Distribution: CH (Mayor Fontana, 1° de Mayo, San Fernando).
Habitat: "Bañados", moist places (ORI).
Uses: Unknown.
Specimens Examined: CH (Rodrigo 2694, LP).

4. **MIKANIA** Willd., 15 species.

1. Plants erect.....2
- Plants scandent.....3
2. Leaf blades lanceolate, pinnate-lobed or pinnatisect.....10. *M. pinnatiloba*
- Leaf blades ovate, sinuate-toothed.....12. *M. thapsoides*
3. Petiole with foliaceous stipules.....4
- Petiole without stipules or stipules reduced.....5
4. Stipules deeply 3-5-lobed (at least of the lower leaves).....5. *M. guaranitica*
- Stipules entire, dentate or laciniate.....6
5. Stems hexagonal, conspicuously costate.....7
- Stems terete, multistriated.....8
6. Leaf blades acuminate. Corolla lobes 1-1.5 mm long.....11. *M. saltensis*
- Leaf blades acute. Corolla lobes 2-2.5 mm long.....14. *M. urticifolia*
7. Capitulescences paniculate. Involucre 2-3 mm high. Corolla lobes 0.2-0.3 mm long.....7. M. *minima*
- Capitulescences corymbose. Involucre 4-7.5 mm high. Corolla lobes 0.5-2.5 mm long....9
8. Corolla lobes 4-1.8 mm long.....10
- Corolla lobes 0.5-1 mm long.....11
9 Leaf blades ovate or cordate, apex acuminate. Corollas 4.5-6 mm long (one lobe deeper). Pappus yellowish or pinkish.....1. *M. cordifolia*

- Leaf blades ovate, base sagittate, apex acute. Corollas 2.5-3.5 mm long (all lobes similar in length). Pappus white.....2. *M. cynanchifolia*
10. Phyllaries apically rounded. Leaf blades subcordate or truncate at the base .....4. *M. euryanthela*
- Phyllaries apically acute. Leaf blades hastate at the base.....15. *M. variifolia*
11. Involucre less than 3 mm long. Subinvolucral bract (bracteole) as long as the involucre or slightly longer .....9. *M. periplocifolia*
- Involucre 3-10 mm long. Subinvolucral bract (bracteole) shorter than the involucre 12
12. Involucre 3-4 mm high.....13
- Involucre 4.5-6 mm high.....14
13. Leaf blades acute or acuminate, as long as wide.....8. *M. parodii*
- Leaf blades long-attenuate above, 3 or 4 times as long as wide.....3. *M. dusenii*
14. Phyllaries long-attenuate at the apex, outer phyllaries pubescent. Stems densely pilose .....13.*M. trachypleura*
- Phyllaries acute, outer phyllaries subglabrous. Stems glabrous or slightly pubescent .....6. *M. micrantha*

1. **Mikania cordifolia** (L. f.) Willd.
Syn.: *Cacalia cordifolia* L. f. - *Mikania cordifolia* var. *tomentosa* Hieron. - *Willoughbya cordifolia* (L. f.) Kuntze
Iconography: Cabrera: 45, fig. 8 A. 1941a.- Cabrera: 56, fig. 11. 1963.- Cabrera: 169, fig. 83. 1974.- Cabrera: 100, fig. 40. 1978.- Cabrera & Klein: 740, fig. 169. 1991(1989).- Holmes & McDaniel: 220, fig. 86. 1996.
Vernacular: "Coraçao de Jesús", "erva de cobra", "e. de sapo", "guaco", "matacampo", "nakolo letaá", "palotr'oik", "pompero kocho", "ysipa kipí", "ysipo katí".
Habit: Perennial vine.
Flowering period: February-May.
Status: Native.
Distribution: CH (O'Higgins, 1° de Mayo, San Fernando), COR (Capital, Empedrado), FO (Pilcomayo), JU (Ledesma), SE (Unknown), TU (Capital).
Habitat: Fields, woods (ORI, OCC).
Uses: Medicinal, anti-inflammatory, antirheumatic, snakebites (Freire & Urtubey, 1999b).
Specimens Examined: CH (Schulz 2688, LP), COR (Schinini et al. 6875, LP), FO (Morel 5536, LP), SE (Schwabe 321, LP), TU (Venturi 117, LP).

2. **Mikania cynanchifolia** (Baker) Malme
Syn.: *Mikania cynanchifolia* Hook. & Arn. ex B. L. Rob. - *M. scandens* var. *cynanchifolia* Baker
Iconography: Holmes & McDaniel: 224, fig. 87. 1996.
Vernacular: "Guako", "ysypo pe",
Habit: Perennial vine.
Flowering period: December.
Status: Native.
Distribution: CH (1°deMayo), COR (Mburucuyá), FO (Unknown).
Habitat: "Esteros" (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 1036, LP), COR (Pedersen 5053, LP), FO (not seen).

3. **Mikania dusenii** B. L. Rob.
Iconography: Cabrera: 171, fig. 84 *i-II*. 1974.- Holmes & McDaniel: 230, fig. 90. 1996.
Vernacular: "Guaco chico".
Habit: Perennial vine.
Flowering period: November-May.
Status: Native.
Distribution: CH (1° de Mayo).
Habitat: "Esteros, bañados" (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 185, LP).

4. **Mikania euryanthela** (Malme) W. C. Holmes
Syn.: *Mikania laxa* ssp. *euryanthela* Malme
Iconography: Holmes & McDaniel: 233, fig. 91. 1996.
Vernacular: "Toque jo'a".
Habit: Perennial vine.
Flowering period: August, September.
Distribution: CH (Unknown), FO (Pilcomayo).
Status: Native.
Habitat: ORI.
Uses: Unknown.
Specimens Examined: CH (not seen), FO (Cusato 747 et al. s.n., BAB).

5. **Mikania guaranitica** Hassl.

Iconography: Holmes & McDaniel: 238, fig. 93. 1996.
Vernacular: "Guaco".
Habit: Perennial vine.
Flowering period: July.
Status: Native.
Distribution: CH (1°de Mayo), FO (Unknown), SE (Copo).
Habitat: Woods near stream banks (ORI, OCC).
Uses: Unknown.
Specimens Examined: CH (Schulz 199, LP), FO (not seen), SE (Meyer 2504, LP).

6. **Mikania micrantha** Kunth
Syn.: *Mikania scandens* auct. non Willd. - *M. subcrenata* Hook. & Arn.
Iconography: Cabrera: 45, fig. 8B. 1941a.- Cabrera: 56, fig. 11B. 1963.- Cabrera: 171, fig. 84 e-h. 1974.- Cabrera: 103, fig. 42 A-E. 1978.- Holmes & McDaniel: 247, fig. 97. 1996.
Vernacular: "Bejuco", "charrúa", isipó", "guaco", "pompero kocho", "siilá llalé".
Habit: Perennial vine.
Flowering period: April, June.
Status: Native.
Distribution: CH(1° de Mayo, Maipú), COR (San Cosme), SA (Metán).
Habitat: Stream banks (ORI, OCC).
Uses: Vulnerary, cough, snikebites, diuretic, sedative, vulnerary (Freire & Urtubey, 1999b).
Specimens Examined: CH (Schulz 247, BAB), COR (Schinini 4784, LP), SA (Rossi 1069, LP).

7. **Mikania minima** (Baker) B. L. Rob.
Syn.: *Mikania scandens* var. *minima* Baker
Iconography: -
Vernacular: Unknown.
Habit: Vine.
Flowering period: March-June.
Status: Native.
Distribution: CH (1° de Mayo).
Habitat: "Esteros" (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 8660, BAB).

8. **Mikania parodii** Cabrera
Iconography: Cabrera: 47, fig. 9. 1941a.- Cabrera: 54, fig. 10. 1963.- Cabrera & Klein: 725, fig. 166. 1991(1989).
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: Unknown.
Status: Native.
Distribution: CH (Unknown), COR (San Cosme).
Habitat: (ORI).
Uses: Unknown.
Specimens Examined: CH (Cabrera 4941, LP holotype), COR (Krapovickas et al. 23647, LP).

9. **Mikania periplocifolia** Hook. & Arn.
Syn.: *Mikania auricularis* Griseb. - *M. scandens* var. *periplocifolia* (Hook. & Arn.) Baker
Iconography: Cabrera: 45, fig. 8C. 1941a.- Cabrera: 56, fig. 11C. 1963.- Cabrera: 16, fig. 5. 1971b.- Cabrera: 171, fig. 84 a-d. 1974.- Cabrera: 103, fig. 42 F-I. 1978.- Holmes & McDaniel: 251, fig. 99. 1996.
Vernacular: "Enredadera del campo", "guaco", "g. del río", "huaco", "loconte", "matacampo", "nakoló", "nakoyó", "tapa cerco", "ysipó caty", "y. ysy".
Habitat: Perennial herb.
Flowering period: February-March, July-November.
Status: Native.
Distribution: CH (Mayor Fontana, 1° de Mayo), COR (Capital), FO (Unknown), JU (Santa Barbara), LR (Capital), SE (Unknown), SF (Gral. Obligado), TU (Capital).
Habitat: Border of woods, stream bank (ORI, OCC).
Uses: Febrifugal, medicinal, snake and insect bites, antimicrobic, cough, diuretic, sedative, etc. (Freire & Urtubey, 1999b).
Specimens Examined: CH (Rodrigo 2374, LP), COR (Schinini 4796, LP), FO (Spegazzini in 1881. LPS 13570, LP), JU (Cabrera 4101, LP), LR (Apuez 43, LP), SE (not seen), SF (Maldonado B. 1692, LP), TU (Venturi 333, LP).

10. **Mikania pinnatiloba** DC.
Iconography: Cabrera: 165, fig. 80 a-e. 1974.- Cabrera & Klein: 652, fig. 155. 1991(1989).- Holmes & McDaniel: 257, fig. 101. 1996.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: December.
Status: Native.
Distribution: CH (1° de Mayo), FO (Pilcomayo).
Habitat: Wet fields, "bañados" (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 55, LP), FO (Morel 6701, LP).

11. **Mikania saltensis** Hieron.
Syn.: *Willoughbya saltensis* (Hieron.) Kuntze
Iconography: Cabrera: 98, fig. 39 A-F. 1978.
Vernacular: Unknown.
Habit: Perennial vine.
Flowering period: April.
Status: Native.
Distribution: SE (Aguirre).
Habitat: Woods (OCCI).
Uses: Unknown.
Specimen Examined: SE (Elisetch-Iturtia? 414, BAB).

12. **Mikania thapsoides** DC.
Syn.: *Eupatorium thapsoides* DC. ex Niederlein - *Kanimia thapsoides* (DC.) Hieron.
Iconography: Cabrera: 165-166, fig. 80 f-j , 81. 1974.- Holmes & McDaniel: 265, fig. 105. 1996.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: December-March.
Status: Native.
Distribution: CH (Cmte. Fernández, Mayor Fontana, 1° de Mayo), FO (Pilcomayo).
Habitat: Pastures, border of woods (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 56, LP), FO (Morel 6975, LP).

13. **Mikania trachypleura** B. L. Rob.
Syn.: *Mikania ypacarayensis* Holmes & McDaniel
Iconography: Holmes & McDaniel: 268, fig. 106. 1996.
Vernacular: "Guaco".
Habit: Vine.
Flowering period: January, May.
Status: Native.
Distribution: CH (1° de Mayo).
Habitat: "Esteros", pastures (ORI).
Uses: Unknown.
Specimen Examined: CH (Schulz 205, LP).

14. **Mikania urticifolia** Hook. & Arn.
Syn.: *Mikania joergensenii* B. L. Rob. - *M. phyllopoda* Griseb. - *Willoughbya phyllopoda* (Griseb.) Kuntze
Iconography: Cabrera: 168, fig. 82. 1974.- Cabrera: 101, fig. 41 F-H. 1978.- Ariza Espinar: 25, fig. 4. 1994.- Holmes & McDaniel: 270, fig. 107. 1996.
Vernacular: Unknown.
Habit: Perennial vine.
Flowering period: May.
Status: Native.
Distribution: CH (San Fernando), CO (Colón), SE (Banda, Choya).
Habitat: Slightly high mountain places (ORI, OCC).
Uses: Unknown.
Specimens Examined: CH (Spegazzini in 1886, LP), CO (Maldonado B. 1410, LP), SE (Schwabe 346, LP).

15. **Mikania variifolia** Hieron.
Syn.: *Mikania sapucayensis* Hassl.
Iconography: Holmes & McDaniel: 272, fig. 108. 1996.
Vernacular: "Guaco".
Habit: Perennial vine.
Flowering period: May-August.
Status: Native.
Distribution: CH (Mayor Fontana, 1° de Mayo, San Fernando), COR (Saladas).
Habitat: Woods and bushes near the stream banks (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 200, LP), COR (Pedersen 5066, LP).

5. **STEVIA** Cav., 6 species.

1. Pappus dimorphic: idiocarps with a crown of scales, adelphocarps with a crown of scales and 1-3 bristle-like awns.....2. *S. breviaristata*
-. Pappus isomorphic of 15-20 bristle-like awns or dimophic (when dimorphic, adelphocarps with more than 7 bristles-like awns)..... 2
2. Pappus isomorphic. Capitulescences diffuse with laxly disposed long-pedicellate capitula. Leaves oblanceolate.....3
-. Pappus iso- or dimorphic. Capitulescences of capitula disposed in dense corymbose clusters. Leaf blades ovate-rhombic or linear..... 4
3. Leaves glandular-punctate, subglabrous.....4. *S. lundiana*
-. Leaves not glandular-punctate, puberulous.....3. *S. entreriensis*
4. Leaves short-petiolate. Leaf blades ovate-rhombic. Pappus isomorphic .....1. *S.aristata*
-. Leaves sessile. Leaf blades linear 5
5. Leaves 30-60 x 1-7 mm. Pappus dimorphic (adelphocarps with 7-13 bristle-like awns) .....5. *S. mercedensis*

-. Leaves 20-25 x 1-3 mm. Pappus iso- or dimorphic (adelphocarps with 12-20 bristle-like awns)..... .....6. *S. satureiifolia*

1. **Stevia aristata** D. Don ex Hook. & Arn.
Syn.: *Stevia aristata* var. *typica* B. L Rob.- *S. polycephala* auct. non Baker
Iconography: Cabrera: 27, fig. 5. 1941a.- Cabrera: 35, fig. 6B. 1963.- Cabrera: 160, fig. 77 a-b. 1974.- Cabrera: 283, fig .113. 1996.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: February-April.
Distribution: COR (Empedrado), SF (Gral. Obligado).
Status: Native.
Habitat: Moist places (ORI).
Uses: Unknown.
Specimens Examined: COR (Schwartz 10208, LP), SF (Job 1182, LP).

2. **Stevia breviaristata** Hook. & Arn.
Syn.: *Stevia lorentzii* Griseb. - *S. pubigera* Hieron. - *S. pubigera* var. *subglabrata* Hieron. - *S. schultzii* Hieron.
Iconography: Cabrera: 79, fig. 30 A-D.1978.- Cabrera: 288, fig. 115. 1996.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: March, April.
Status: Native.
Distribution: SE (Rio Hondo), TU (Capital).
Habitat: Mountain places, 450 m (OCC).
Uses: Unknown.
Specimens Examined: SE (Cozzani et al. 1647, BAB), TU (Venturi 6126, LP).

3. **Stevia entreriensis** Hieron.
Syn.: *Dissothrix hassleriana* Chodat - S. *entreriensis* var. *minor* Hieron. - *S. hirsuta* Griseb. - *S. oxylaena* Griseb. - *S. oxylaena* var. *villosa* Hieron.
Iconography: Cabrera: 162, fig. 78 a-g. 1974.- Cabrera: 296, fig. 119. 1996.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: April.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), FO (Pilcomayo).
Habitat: Usually on sandy soils (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 74, LP), FO (Fortunato 2774 et al., BAB, SI).

4. **Stevia lundiana** DC.
Iconography: Baker: tab.58. 1876.- Cabrera & Klein: 437, fig. 115. 1991(1989).
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: March.
Status: Native.
Distribution: CH (San Fernando).
Habitat: Fertile and low fields (ORI).
Uses: Unknown.
Specimen Examined: CH (Schulz 14878, BAB).

5. **Stevia mercedensis** Hieron. var. **mercedensis**
Syn.: *Stevia mercedensis* var. *typica* B. L. Rob.
Iconography: -
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: Unknown.
Status: Native.
Distribution: SE (Guasayán, Ojo de Agua), TU (Cruz Alta).
Habitat: Rocky soils, 400-590 m (OCC).
Uses: Unknown.
Specimens Examined: SE (Maldonado 1576, LP), TU (Venturi 1927, LP).

6. **Stevia satureiifolia** (Lam.) Sch. Bip. var. **satureiifolia**
Syn.: *Eupatorium satureiifolium* Lam. - *Mikania satureiifolia* (Lam.) Willd. - *Nothites satureiifolia* (Lam.) DC. - *Stevia multiaristata* Griseb. - *S. satureiifolia* var. *angustifolia* Baker - *S. satureiifolia* var. *genuina* Hieron.
Iconography: Cabrera: 28, fig. 6. 1941a.- Cabrera: 35, fig. 6a. 1963.- Cabrera: 162, fig. 78 h-k. 1974.- Ariza Espinar: 34, fig. 5. 1994.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: Unknown.
Status: Native.
Distribution: SE (Ojo de Agua).
Habitat: Rocky soils, 540 m (OCC).
Uses: Unknown.
Specimen Examined: SE (Maldonado 972, LP).

5. Tribe **HELENIEAE,** 9 genera, 15 species, 3 varieties.

1. Conspicuous oil glands in leaves and involucre..... 2

-. Oil glands absent in leaves and involucre, sometimes with punctate glands.....5
2. Capitula discoid, corollas all tubular .....6. *Porophyllum*
-. Capitula radiate, marginal corollas ligulate and central corollas tubular.....3
3. Style of the central florets shortly bilobate.....5. *Pectis*
-. Style of the central florets bifid, with long branches.....4
4. Pappus scales of unequal length, some of them aristate.....8. *Tagetes*
-. Pappus scales of equal or almost equal length.....9. *Thymophylla*
5. Receptacle covered by rigid bristles .....2. *Gaillardia*
-. Receptacle naked.....6
6. Cypselas without pappus (sometimes with scaly pappus in species not occurring in Argentina).....1. *Flaveria*
-. Cypselas with pappus.....7
7. Phyllaries with membranous margin.....7. *Schkuhria*
-. Phyllaries without membranous margin.....8
8. Receptacle hemispherical. Outer phyllaries longer than the inner ones .....3. *Helenium*
-. Receptacle flat or slightly convex. Outer phyllaries shorter than the inner ones .....4. *Hymenoxys*

1. **FLAVERIA** Juss., 2 species.

1. Erect herbs, stems yellow-greenish or reddish to the apex. Leaves broadly ovate or elliptic, ca. 0.5-3 cm wide. Capitula in dense, capituliform glomerules .....1. *F. bidentis*
-. Globose herbs, stems reddish to the apex. Leaves linear or narrowly ovate to elliptic, 0.1-0.8 cm wide. Capitula in lax, not capituliform glomerules.....2. *F. haumanii*

1. **Flaveria bidentis** (L.) Kuntze

Syn.: *Ethulia bidentis* L. - *Eupatorium chilense* Molina - *Flaveria bidentis* (L.) B. L. Rob. - *F. bonariensis* DC. - *F. capitata* Juss. - *F. chilensis* Juss. - *F. contrayerba* (Cav.) Pers. - *Milleria chiloensis* Juss. - *M. contrayerba* Cav. - *Vermifuga corymbosa* Ruiz & Pav.

Iconography: Cabrera: 237, fig. 70 A-G. 1963.- Cabrera: 152, fig. 141 a-d. 1971b.- Cabrera: 400, fig. 234 a-g. 1974.- Cabrera: 421, fig. 176 A-F. 1978.

Vernacular: "Balda", "chasca", "chascayuyo", "contra herva", "contrahierba", "contrayerba", "dauda", "daudá", "fique", "flor amarilla", "mata gusanos", "nacunan", "ñacuñán", "pique", "quejatulpino", "quellotarpo", "solo", "sunchillo", "tuntusa", "valda".

Habit: Annual herb.

Flowering period: Throughout the year.

Status: Native.

Distribution: CH (1º de Mayo, 25 de Mayo, Bermejo, Libertador Gral. San Martín, Mayor Fontana, Quitilipi, San Fernando,), COR (Capital), FO (Pilagás, Pilcomayo), LR (San Martín), SA (Metán), SF (9 de Julio), SE (Banda, Capital, Gral. Taboada, Ojo de Agua, Robles).

Habitat: Humid soils, areas cleared of trees, riverbanks, margins of roads (OCC, ORI).

Uses: Antiseptic, against suppuration and eruptive diseases, expectorant, against fevers, to wash wounds, against leucorrhoea, against ulcers, tonic, insecticide, stimulant, vermifuge, against the poison of insects and snakes, digestive, emmenagogue (Freire & Urtubey, 2000b), tinctorial (Marzocca, 1993), ornamental (Marzocca, 1976).

Specimens Examined: CH (Rojas 11897, LP), COR (Cabrera 2977, LP), FO (Piccinini & Leguizamón 2589, BAB), LR (Krapovickas 6052, LP), SA (Jansen & Sarandón 768, LP), SE (Soriano 549, LP, SI), SF (Job 1102, LP).

2. Flaveria haumanii Dimitri & Orfila

Syn.: *Flaveria bidentis* (L.) Kuntze var. *angustifolia* Kuntze

Iconography: Dimitri & Orfila: Apéndice: 466, fig. A, a-g. 1985.

Vernacular: Unknown.

Habit: Annual herb.

Flowering period: December-June.

Status: Native.

Distribution: SE (Brig. Ibarra. Capital, Moreno, Ojo de Agua).

Habitat: Humid soils, areas cleared of trees, riverbanks, margins of roads (OCC).

Uses: The same as *Flaveria bidentis*.

Specimens Examined: SE (Molina & Hilfer 3339, BAB).

2. **GAILLARDIA** Foug., 1 species, 2 varieties.

1. **Gaillardia megapotamica** (Spreng.) Baker

1. Capitula radiate.....a. var. *radiata*
- Capitula discoid.....b. var. *scabiosoides*

a) **Gaillardia megapotamica** var. **radiata** (Griseb.) Baker

Syn.: *Gaillardia scabiosoides* (Arn. ex DC.) Benth. & Hook. f. var. *radiata* Griseb.
Iconography: Cabrera: 403, fig. 236 h-k. 1974.
Vernacular: "Topasaire".
Habit: Perennial herb.
Flowering period: September-February.
Status: Native.
Distribution: CH (1º de Mayo, 9 de Julio, Alm. Brown, Gral. Belgrano, Gral. Güemes, Independencia, Mayor Fontana, San Fernado), SE (Brig. Ibarra, Pellegrini, Moreno, Ojo de Agua).
Habitat: Fields, margins of railroads (OCC, ORI).
Uses: Anticephalalgic, cough, febrifugal (Freire & Urtubey, 2000a)
Specimens Examined: CH (Boffa 1013, LP), SE (Castiglioni & Ragonese 7240, BAB).

b) **Gaillardia megapotamica** var. **scabiosoides** (DC.) Baker

Syn.: *Cercostylos scabiosoides* Arn. ex DC. - *Gaillardia scabiosoides* (Arn. ex DC.) Benth. & Hook. f.
Iconography: Cabrera: 248, fig. 74 A-G. 1963.- Cabrera: 403, fig. 236 a-g. 1974.
Vernacular: "Botón de oro", "manzanilla", "topasaire".
Habit: Perennial herb.
Flowering period: September-March.
Status: Native.
Distribution: SF (9 de Julio).
Habitat: Fields (ORI).
Uses: Analgesic (Amat, 1983), sneeze inducer and against headache (Toursarkissian, 1980; Zardini, 1984).
Specimens Examined: SF (Krapovickas 797, LP).

3. **HELENIUM** L., 2 species.

1- Leaves generally entire. Disc corollas cream. Pappus of 5-7 aristate scales.1. *H. donianum*
-. Leaves generally 1-3-lobulate. Disc corollas orange-yellowish. Pappus of ca. 9 aristate scales.....2. *H. radiatum*

1. **Helenium donianum** (Hook & Arn.) Seckt

Syn.: *Actinea doniana* (Hook. & Arn.) Kuntze - *Cephalophora doniana* Hook. & Arn. - *Gaillardia doniana* (Hook.& Arn.) Griseb. - *Helenium donianum* (Hook. & Arn.) Cabrera
Iconography: Novara & Petenatti: 14, fig.4. 2000.
Vernacular: "Topasaire".
Habit: Subshrub.
Flowering period: October-March.
Status: Native.
Distribution: CO (Río Seco), SE (Choya, Gral. Taboada, Guasayán, Jiménez, Moreno).
Habitat: Arid and rocky soils (OCC).
Uses: Unknown.

Specimens Examined: CO (Sayago 2225, LP), SE (Piccinini & Petetin 3247, CTES).

2. **Helenium radiatum** (Less.) Seckt

Syn.: *Actinea alternifolia* Spreng. - *A. heterophylla* Juss. - *A. heterophylla* Juss. f. *bicolor* Kuntze - *A. heterophylla* Juss. var. *dentata* Kuntze - *A. radiata* (Less.) Kuntze - *Actinella heterophylla* (Juss.) Pers. - *Cephalophora heterophylla* (Juss.) Less. - *C. radiata* Less. - *Helenium alternifolium* (Spreng.) Cabrera - *H. heterophyllum* (Juss.) Malme - *H. mattfeldianum* Herter - *H. radiatum* (Less.) Bierner
Iconography: Cabrera: 245, fig. 73 A-F. 1963.- Cabrera: 408, fig. 239 a-h. 1974.
Vernacular: Unknown.

Habit: Subshrub.
Flowering period: November-February.
Status: Native.
Distribution: SE (Moreno, Ojo de Agua, Quebrachos).
Habitat: Rocky slopes (OCC).
Uses: Unknown.
Specimen Examined: SE (Ragonese 6311, BAB).

4. **HYMENOXYS** Cass., 1 species.

1. **Hymenoxys anthemoides** (Juss.) Cass.
Syn.: *Actinea anthemoides* (Juss.) Kuntze - *A. haenkeana* (DC.) Kuntze - *A. anthemoides* (Juss.) A. Gray - *Actinella anthemoides* (Juss.) Malme - *A. anthemoides* (Cass.) Herter - *Hymenopappus anthemoides* Juss.- *Hymenoxys haenkeana* DC.- *H. parodii* I. M. Johnst.
Iconography: Cabrera: 242, fig. 72 A-F. 1963.- Cabrera: 405, fig. 237 a-i. 1974.- Parker: fig. 2D, 4A. 1962. Ragonese & Milano: 333, fig 53 A-C. 1984.
Vernacular: "Botón botón", "b. de oro", "kaskasli", "manzanilla cimarrona", "m. del campo", "m. silvestre", "topasaire", "uompé sanép", "u. sanesanelét".
Habit: Annual herb.
Flowering period: July-December.
Status: Native.
Distribution: CH (25 de Mayo, Bermejo, Libertador, Gral. San Martín, Mayor Fontana, San Fernando), FO (Pilcomayo, Pirané), SE (Aguirre, Banda, Brig. Ibarra, Ojo de Agua, Quebrachos, Robles).
Habitat: Humid, alcaline, sandy, salty soils, fields, margin of roads (OCC, ORI).
Uses: Against colds, headaches, sneeze inducer (Freire & Urtubey, 2000a).

Specimens Examined: CH (Rojas 12024, LP), FO (Cabral et al. 1113, BAB), SE (Delucchi et al. 2104, LP).
Obs.: Toxic for cattle (Freire et al., 2005).

5. **PECTIS** L., 2 species.

1. Erect herbs. Capitula long-pedunculate, phyllaries generally 8.....1. *P. odorata*
-. Creeping herbs. Capitula sessile or subsessile, phyllaries 5 (7).....2. *P. sessiliflora*

1. **Pectis odorata** Griseb.

Iconography: Cabrera: 430, fig. 179 A-G. 1978.
Vernacular: "Cerdilla", "chinchilla", "cominito del campo", "comino", "c. del campo", "limonillo", "manzanilla del campo", "yerba del venado".
Habit: Annual herb.
Flowering period: September-February.
Status: Native.
Distribution: CH (Alm. Brown), COR (Bella Vista, Empedrado, Lavalle), FO (Bermejo, Matacos, Patiño), SE (Carlos Pellegrini, Ojo de Agua, Quebrachos).
Habitat: Sandy and grassy soils, slopes of hills (OCC, ORI).
Uses: Antiflatulent, digestive, against tuberculosis (Zardini, 1984).

Specimens Examined: CH (Molina 2960, BAB), COR (Schinini 5287, LP), FO (Arenas 3070, SI), SE (Di Lullo 28, LP, SI).

2. **Pectis sessiliflora** (Less.) Sch. Bip.

Syn.: *Cryptopetalum ciliare* Cass. - *Lorentea cryptopetala* DC. - *L. sessiliflora* Less.
Iconography: Cabrera: 430, fig. 179 H-K. 1978.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: March.
Status: Native.
Distribution: SA (Unknown), SE (E. M. Petenatti & L. Ariza Espinar, 1997:17, Zuloaga & Morrone, 1999: 264).
Habitat: Mountains (OCC).
Uses: Unknown.
Specimen Examined: SA (Lorentz & Hieronymus s.n., LP).

6. **POROPHYLLUM** Adans., 3 species.

1. Monoclinous herbs (plants with capitula of bisexual florets). Involucre 15-25 mm high.....2

- Gynodioecious subshrubs (plants with capitula of bisexual florets and plants with capitula of female florets). Involucre ca. 12 mm high.....2. *P. obscurum*
- Leaves elliptic or elliptic-lanceolate, petiolate. Florets yellow or whitish.....3. *P. ruderale*
- Leaves lanceolate, base attenuate. Florets violet.....1. *P. lanceolatum*

1. **Porophyllum lanceolatum** DC.
Syn.: *Porophyllum curticeps* Malme - *P.excertum* Baker - *P. lanceolatum* DC. var. *angustius* Chodat - *P. lanceolatum* DC. var. *corymbosum* Chodat - *P. lanceolatum* DC. f. *depauperata* Chodat - *P. lanceolatum* DC. f. *foetens* Chodat - *P. lanceolatum* DC. f. *genuinum* Hassl. - *P. lanceolatum* DC. f. *glaucum* Hassl. - *P. lanceolatum* DC. var. *induratum* Chodat - *P. lanceolatum* DC. var. *lineare* Hassl. - *P. martii* Baker - *P. prenanthoides* DC.
Iconography: Cabrera: 412, fig. 242 b-f. 1974.- Cabrera: 437, fig. 182 A-E. 1978.
Vernacular: "Clavelina", "quilquiña", "yerba del venado".
Habit: Annual herb.
Flowering period: December-March.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), COR (Bella Vista, Lavalle, San Roque), FO (Pilcomayo, Pirané).
Habitat: Margins of roads, wet places, sandy and clay soils, grasslands (ORI).
Uses: To expel the placenta, ocular antiseptic, against syphilis, lung diseases, furuncles (Freire & Urtubey, 1999b).
Specimens Examined: CH (Schulz 1031, LP), COR (Boelcke 1554, LP), FO (Fortunato et al. 2863, BAB).

2. **Porophyllum obscurum** (Spreng.) DC.
Syn.: *Kleinia linifolia* Hook. & Arn. - *K. obscura* Spreng. - *Porophyllum eremophilum* Cabrera - *P. haenkei* DC. - *P. lineare* DC. - *P. oblanceolatum* Rusby
Iconography: Cabrera: 255, fig. 77 A-E. 1963.- Cabrera: 410, fig. 241 a-f. 1974.- Cabrera: 437, fig. 182 F-H. 1978.
Vernacular: "Curupaimi", "kilkina", "quirquina", "ruda blanca", "yerba del ciervo", "y. de la gama", "y. del venado".
Habit: Subshrub.
Flowering period: September-January.
Status: Native.
Distribution: CH (Dpto. 1° de Mayo, Bermejo), COR (San Cosme), SE (Choya, Gral. Taboada, Guasayán, Ojo de Agua, Quebrachos), SF (San Javier, Vera), FO (Unknown).
Habitat: Salty and dry soils (OCC, ORI).
Uses: Against colics, venereal diseases, diaphoretic, depurative (Freire & Urtubey, 1999b).
Specimens Examined: CH (Schulz 19022, BAB), COR (Pedersen 6403, LP), SE (Pérez Moreau et al. 4742, BAB), SF (Ragonese 2755, LP), FO (Jörgensen 3361, SI).

3. **Porophyllum ruderale** (Jacq.) Cass.
Syn.: *Cacalia glandulosa* Salisb. - *C. porophyllum* L. - *C. ruderalis* (Jacq.) Sw. - *Kleinia porophyllum* (L.) Willd. - *K. ruderalis* Jacq. - *Porophyllum ellipticum* Cass. - *P. ellipticum* Cass. var. *genuinum* Urb. - *P. ellipticum* Cass. var. *intermedium* DC. - *P. ellipticum* Cass. var. *ruderale* Urb. - *P. latifolium* Benth. - *P. macrolepideum* Malme - *P. porophyllum* Kuntze - *P. ruderale* (Jacq.) Cass. var. *angustifolium* Hassl. - *P. ruderale* (Jacq.) Cass. var. *ellipticum* B. L. Rob. - *P. ruderale* (Jacq.) Cass. var. *glandulosum* Chodat - *P. ruderale* (Jacq.) Cass. var. *macrolepideum* Chodat - *P. ruderale* (Jacq.) Cass. f. *suffruticosa* Chodat - *Tagetes integrifolia* Muschl.
Iconography: Cabrera, 1974: 412, fig. 242 a, Cabrera, 1978: 433, fig. 180 A-E.
Vernacular: "Amores secos", "kiré nis(l)é plus, "mboi moroti", "pinita", "quilquiña", "sallagatrák lâteé, "sallagatrák llâle".
Habit: Annual herb.
Flowering period: January-May, November, December.
Status: Native.
Distribution: CH (1° de Mayo, Bermejo, Cmte. Fernández, Gral. Güemes), COR (Capital, Empedrado, San Cosme), FO (Bermejo, Matacos, Pirané), JU (San Pedro, Santa Bárbara), SF (Vera), SE (Copo, Figueroa, Guasayán, Ojo de Agua, Robles, Silípica).
Habitat: Areas cleared of trees, margin of forests (OCC, ORI).
Uses: Antipyretic, ocular antiseptic, depurative, diaphoretic, haemostatic, against bruises (Freire & Urtubey, 1999b, condiment (Zardini, 1984).

Specimens Examined: CH (Jörgensen 2736, SI), COR (Pedersen 6482, LP), FO (Bayón & Moreno 782, LPAG), JU (Cabrera 4068, LP), SF (Tedone 5071, LP), SE (Molina et al. 1270, BAB).

7. **SCHKUHRIA** Roth nom. cons., 1 species.

1. **Schkuhria pinnata** (Lam.) Kuntze ex Thell.

Syn.: *Amblyopappus mendocina* Phil. - *Pectis pinnata* Lam. - *Rothia pinnata* (Lam.) Kuntze - *R. pinnata* (Lam.) Kuntze var. *pallida* Kuntze - *R. pinnata* (Lam.) Kuntze var. *purpurascens* Kuntze - *Schkuhria abrotanoides* Roth - *S. abrotanoides* Roth var. *isopappa* (Benth.) Hieron. - *S. abrotanoides* Roth var. *pomasquiensis* Hieron. - *S. advena* Thellung - *S. bonariensis* Hook. & Arn. - *S. coquimbana* Phil. - *S. isopappa* Benth. - *S. octoaristata* DC. - *S. pinnata* (Lam.) Kuntze ex Thell. var. *abrotanoides* (Roth) Cabrera - *S. pinnata* (Lam.) Kuntze ex Thell. var. *octoaristata* (DC.) Cabrera - *S. pinnata* (Lam.) Kuntze ex Thell. var. *typica* Cabrera

Iconography: Cabrera: 239, fig. 71 A-G. 1963.- Cabrera: 402, fig. 235 a-i. 1974.- Cabrera: 422, fig. 177 L-P. 1978.- Cabrera: 152, fig. 142 a-e. 1971b.

Vernacular: "Canchalagua", "canchalahua", "jayac pichana", "matalahuga", "matapulgas", "piqui pichana".

Habit: Annual herb.

Flowering period: March, October-January.

Status: Native.

Distribution: CH (9 de Julio, Bermejo, Mayor Fontana), FO (Pilcomayo), SE (Aguirre, Gral. Belgrano, Guasayán, Ojo de Agua).

Habitat: Fields, margins of roads, on salty soils (OCC, ORI).

Uses: To loose weight, antirheumatic, depurative, emenagoga, stimulant, antipyretic, insecticide, tonic (Freire & Urtubey, 2000c).

Specimens Examined: CH (Boffa 1024, LP, SI), FO (Morel 6338, LIL), SE (Piccinini & Petetin 3255, CTES).

8. **TAGETES** L., 1 species.

1. **Tagetes minuta** L.

Syn.: *Tagetes bonariensis* Pers. - *T. glandulifera* Schrank - *T. glandulosa* Link - *T. porophyllum* Vell.

Iconography: Cabrera: 251, fig. 75 A-E. 1963.- Cabrera: 414, fig. 243 a-i'. 1974.- Cabrera: 445, fig. 186 A-G. 1978.

Vernacular: "Amores secos", "chemagaráik" (Toba), "chil chil", "chinchilla", "cravo do difunto", "floramar", "huacatai", "kinchiwé (Araucano-Pampa), "suico".

Habit: Annual herb.

Flowering period: September-March.

Status: Introduced.

Distribution: CH (1º de Mayo, Gral. Güemes, Independencia, Mayor Fontana), CO (Tulumba), COR (Bella Vista, Capital), FO (Patiño), JU (Santa Bárbara), SA (Anta, Rosario de la Frontera), SE (Aguirre, Banda, Capital, Choya, Guasayán, Río Hondo, Robles).

Habitat: Prairies, areas cleared of trees, fields, margin of roads (OCC, ORI).

Uses: Hepatic protector, insecticide, aphrodisiac, antiseptic, depurative, stimulant, carminative, against blennorrhea, vermifuge, antirheumatic, catartic, diaphoretic, sudorific, sedative, laxative, digestive, diuretic (Freire & Urtubey, 2000c), as a condiment, forage (although the milk of the cows has bad taste because of the resins of the plant), tinctorial (Zardini, 1984).

Specimens Examined: CH (Jörgensen 2928, SI), CO (Luti 4163, LP), COR (Pire et al. 345, LP), FO (Filipov 117, SI), JU (Zardini 1367, LP), SA (Cabrera 2966, LP), SE (Bayón 429, LPAG).

9. **THYMOPHYLLA** Lag., 1 species.

1. **Thymophylla pentachaeta** (DC.) Small var. **belenidium** (DC.) Strother

Syn.: *Dyssodia belenidium* (DC.) O. Hoffm. - *D. belenidium* (DC.) Macloskie - *D. cupulata* A. Nelson - *D. gracilis* (Rydb.) Cory - *D. pentachaeta* (DC.) B. L. Rob. var. *belenidium* (DC.) Strother - *D. thurberi* (A. Gray) B. L. Rob. - *Hymenatherum belenidium* DC. - *H. candolleanum* Hook. & Arn. - *H. thurberi* A. Gray - *Tagetes belenidium* (DC.) Kuntze - *Thymophylla belenidium* (DC.) Cabrera - *T. gracilis* Rydb. - *T. thurberi* (A. Gray) Wooton & Standl.

Iconography: Cabrera: 253, fig. 76 A-H. 1963.
Vernacular: "Perlilla", "pichicho", "rayito de sol".
Habit: Subshrub.
Flowering period: September, October.
Status: Native.
Distribution: CO (Río Seco), SE (Ojo de Agua).
Habitat: Rocky soils, margin of roads (OCC).
Uses: Medicinal (Zardini, 1984).
Specimens Examined: CO (Sayago 2074, LP), SE (Pérez Moreau & Petetín 3891, BAB).
Obs.: Toxic for cattle (Freire et al., 2005).

6. Tribe **HELIANTHEAE**, 34 genera, 63 species.

1. Capitula one-flowered, rarely two-flowered, florets bisexual. Capitulescences glomerulose.....19. *Lagascea*
-. Capitula several-flowered (except *Ambrosia* with one-flowered female capitula).....2
2. Receptacle epaleaceous. Involucre of two accrescent phyllaries.....26. *Synedrellopsis*
-. Receptacle paleaceous (except female capitula of *Ambrosia* and *Xanthium*). Involucre of several phyllaries.....3
3. Plants diclinous-monoecious. Capitula isomorphic, corolla wanting in pistillate florets. Pollination anemophilous.....4
-. Plants monoecious. Capitula isomorphic or dimorphic, florets bisexual, pistillate (with corolla), staminate (ovary sterile), or neutral, or these variously combined. Pollination entomophilous.....5
4. Female capitula one-flowered, pseudo-fruits not spiny, with 4-5 distal projections. Male capitula nutant, arranged in terminal capitulescences, phyllaries fused, stamens with free filaments and connate anthers.....3. *Ambrosia*
-. Female capitula two-flowered, pseudo-fruits spiny, the spines hook-shaped. Male capitula erect, axillary, solitary, phyllaries free, not fused, stamens with fused filaments and free anthers.....32. *Xanthium*
5. Marginal corollas persistent at maturity on the cypselas.....6
-. Marginal corollas caducous at maturity.....7
6. Leaves petiolate. Capitula sessile, phyllaries equal or subequal in length, corollas yellow or white, cypselas apically three-awned.....23. *Sanvitalia*
-. Leaves sessile. Capitula pedunculate, the peduncles apically broadened, external phyllaries shorter than the internal ones, cypselas apically one-awned, the awn sometimes wanting.....34. *Zinnia*
7. Central florets functionally male (ovary sterile).....8
-. Central florets bisexual.....9
8. Leaves opposite, blades entire.....1. *Acanthospermum*
-. Leaves alternate, blades pinnatisect.....21. *Parthenium*
9. Pappus of well developed, membranaceous, linear-lanceolate scales.....10
-. Pappus of awns, scales, or bristles, they combined or not, the pappus sometimes wanting.....11
10. Perennial herbs. Involucre of three or more series of imbricate phyllaries, marginal florets more than 5, marginal cypselas falling off individually at maturity.....7. *Calea*
-. Annual herbs. Involucre of two series of subequal phyllaries, marginal florets 5, marginal cypselas falling off at maturity together with one palea, each of it enclosing 2 flowers.....14. *Galinsoga* (*parviflora*)
11. Cypselas of central florets thick or laterally compressed.....12
-. Cypselas of central florets more or less compressed, pappus when present of retrorse-ciliate or antrorse-ciliate awns.....13
12. Internal phyllaries enclosing the marginal cypselas.....14
-. Internal phyllaries not enclosing the cypselas. Pappus present.....15
13. Marginal florets neutral.....16
-. Marginal florets pistillate.....17
14. Pappus wanting.....18
-. Pappus of one or two awns.....19
15. Cypselas of central florets marginally winged.....20
-. Cypselas of central florets not marginally winged.....21
16. Cypselas rostrate. Anther filaments hairy.....10. *Cosmos*

-. Cypselas erostrate. Anther filaments glabrous.....6. *Bidens*
17. Annual herbs. Cypselas dimorphous.....22
-. Perennial herbs or shrubs. Cypselas isomorphous or dimorphous.....23
18. Plants aquatic, floating, or marshy.....12. *Enhydra*
-. Terrestrial plants.....18. *Jaegeria*
19. Pappus strongly reduced to one short awn.....22. *Ratibida*
-. Pappus of two awns.....24. *Simsia*
20. External phyllaries longer and wider than the internal ones.....24
-. External phyllaries smaller than the internal ones.....33. *Zexmenia*
21. Paleae linear-filiform. Corollas white.....11. *Eclipta*
-. Paleae wide-lanceolate. Corollas yellow.....25
22. Central cypselas winged, the wings thick, chartaceous and ciliate, pappus wanting .....9. *Chrysanthellum*
-. Central cypselas wingless, pappus of two awns.....16. *Heterosperma*
23. Pappus of crown of short scales.....26
-. Pappus of two awns.....27
24. Herbs. Pappus absent in marginal florets, central florets with pappus of two free awns .....29. *Verbesina*
-. Subshrubs. Pappus of 3 awns in marginal florets, Pappus of 2 awns in central cypselas, sometimes with alternate small scales.....4. *Angelphytum*
25. Pappus caducous of numerous short bristles. Paleae concave, acute, stiff, longer than the central florets.....20. *Melanthera*
-. Pappus persistent, without the characteristics of 25.....28
26. Involucre campanulate, phyllaries herbaceous. Cypselas tuberculate.....25. *Sphagneticola*
-. Involucre hemispherical, phyllaries scarious. Cypselas not tuberculate.....31. *Wedelia*
27. Disc corollas 4-parted. Internal phyllaries only fused in the lower half..... 17. *Isostigma*
-. Disc corollas 5-parted. Internal phyllaries fused in the lower half or more..27. *Thelesperma*
28. Marginal florets pistillate.....29
-. Marginal florets neutral.....30
29. Receptacle conical at maturity. Cypselas of central florets laterally very compressed, with acute angles.....2. *Acmella*
-. Receptacle plain or slightly convex. Central cypselas laterally weakly compressed.....8. *Calyptocarpus*
30. Leaves opposite.....32
-. Leaves alternate or the basal opposite.....33
32. Pappus of fused scales with or without few awns. Plant not resinous.....28. *Tithonia*
-. Pappus of two awns. Shrub resinous.....13. *Flourensia*
33. Pappus caducous.....15. *Helianthus*
-. Pappus persistent.....34
34. Pappus of fused scales and short awns.....5. *Aspilia*
-. Pappus of free scales of awns.....30. *Viguiera*

1. **ACANTHOSPERMUM** Schrank, 2 species.

1. Stems decumbent or ascendent. Pseudo-fruits oblong-fusiform, slightly compressed, ribbed, not spiny and with a circular depression at the apex.....1. *A. australe*
- Stems erect. Pseudo-fruits cuneate, not ribbed, with 2 divergent spines at the apex .....2. *A. hispidum*

1. **Acanthospermum australe** (Loefl.) Kuntze

Syn.: *Acanthospermum brasilianum* Schrank - *A. hirsutum* DC .- *A. xanthioides* (Kunth) DC. - *Centrospermum xanthioides* Kunth - *Melampodium australe* Loefl. - *Orcya adhaerens* Vell.

Iconography: Cabrera: 101, fig. 50. 1963.- Cabrera: 341, fig. 196 (e-o). 1974.

Vernacular: "Abrojillo", "carrapicho", "guadrilla", "guajerilla", "guajrilla", "guarilla", "guasrilla", "guayrilla", "natiu", "ñatchu", "ñatehú", "tapecué", "tapekué", "tape tuya", "tayecuí", "tepecurí", "yerba de la oveja."

Habit: Annual herb.

Flowering period: January-April, June, August.
Status: Native.
Distribution: COR (Capital, Empedrado, San Cosme), SF (Gral. Obligado-San Javier).
Habitat: Sandy soils (ORI).
Uses: Diaphoretic, emollient, febrifugal, contraceptive, antidiarrhoeal, sedative, cicatrizant, hepatic, mycosis, abortifacient, diuretic, sudorific (Freire & Urtubey, 2000b).
Specimens Examined: COR (Hunziker 5544, LP), SF (Job 1017, LP).

2. **Acanthospermum hispidum** DC.
Syn.: *Acanthospermum humile* var. *hispidum* Kuntze
Iconography: Cabrera: 341, fig. 196 a-k. 1974.- Nash: 503, fig. 48. 1976.- Cabrera: 335, fig. 140. 1978.- Ariza Espinar: 12, fig. 1. 2000.
Vernacular: "Carretilla de oveja", "cuajerilla", "guajerilla", "rodajillo", "torito", "yerba de la oveja".
Habit: Annual herb.
Flowering period: January, March, April, June.
Status. Native.
Distribution: CH (1° de Mayo), CO (Río Seco, San Alberto), FO (Matacos, Patiño, Pilcomayo), SA (Anta), SE (Copo, Guasayán, Moreno, Pellegrini), TU (Burruyacú).
Habitat: Sandy soils, cultivated fields, disturbed areas, weed (ORI, OCC).
Uses: Antibacterial, antifungal, perfumery (Viswanathan & Singh, 1996), antidiarrhoeal, diuretic, diaphoretic, sudorific, contraceptive (Freire & Urtubey, 2000b).
Specimens Examined: CO (Burkart 4237, LP), CH (Schulz 2143, BAB), FO (Molina et al. 102, BAB), SA (Rossi 1038, LP), SE (Molina 1333, BAB), TU (Varela s.n., LP 892883).

2. **ACMELLA** Rich., 6 species.

1. Leaves linear-lanceolate or narrowly ovate, to 15 mm wide.....2
- Leaves narrowly ovate, ovate, spatulate, oblanceolate, elliptic, or obovate, more than 15 mm wide.....4
2. Pappus absent.....6. *A. pusilla*
-. Pappus present.....3
3. Cypselas with corky margins.....5. *A. glaberrima*
-. Cypselas without corky margins.....4. *A. decumbens* var. *affinis*
4. Marginal florets inserted or slightly exceeding the involucre. Cypselas with corky margins.....3. *A. ciliata*
-. Marginal florets exserted. Cypselas without corky margins.....5
5. Pappus absent.....1. *A. alpestris*
-. Pappus present.....2. *A. bellidioides*

1. **Acmella alpestris** (Griseb.) R. K. Jansen
Syn.: *Spilanthes alpestris* Griseb.
Iconography: Cabrera: 394, fig. 165 f-j. 1978.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: Summer-Autumn.
Status: Native.
Distribution: FO (Bermejo, Formosa, Matacos, Ramón Lista).
Habitat: Clearings, fertile soils (ORI, OCC).
Uses: Unknown.
Specimens Examined: FO (Molina et al. 409, BAB).

2. **Acmella bellidioides** (Sm. in Rees) R. K. Jansen
Syn.: *Ceratocephalus arnicoides* (DC.) Kuntze - *Rudbeckia bellidioides* Sm. in Rees - *Spilanthes arnicoides* DC. - *S. arnicoides* DC. var. *intermedia* Chodat - *S. arnicoides* DC. var. *setosa* Chodat - *S. doronicoides* DC. - *S. bellidioides* (Sm. in Rees) Cabrera - *S. blepharicarpa* DC. - *S. longifolia* DC. - *S. grandis* DC. - *S. grisea* (Chodat) A. H. Moore var. *intermedia* (Chodat) A. H. Moore - *S. grisea* (Chodat) A. H. Moore var. *micra* A. H. Moore - *S. grisea* (Chodat) A. H. Moore var. *setosa* (Chodat) A. H. Moore - *S. sphaerocephala* DC.
Iconography: Cabrera: 381, fig. 221; 302, fig. 222; 383, fig. 223. 1974 (sub *Spilanthes grisea*).
Vernacular: Unknown.

Habit: Perennial herb.
Flowering period: October-April.
Status: Native.
Distribution: CH (Bermejo, 12 de Octubre, 1° de Mayo), SE (Brig. Ibarra-Gral. Taboada-Moreno, Guasayán).
Habitat: Rocky and sandy soils (ORI, OCC).
Uses: Unknown.
Specimens Examined: CH (Joergensen 2027, SI), SE (Piccinini & Petetín 3269, BAB).

3. **Acmella ciliata** (Kunth) Cass.
Syn.: *Acmella fimbriata* (Kunth) Cass. - *Ceratocephalus ciliatus* (Kunth) Kuntze - *C. fimbriatus* (Kunth) Kuntze - *C. poeppigii* (DC.) Kuntze - *Spilanthes ciliata* Kunth - *S. fimbriata* Kunth - *S. melampodioides* Gardner - *S. poeppigii* DC. - *S. popayanensis* Hieron.
Iconography: Pruski: 201, fig. 160. 1997.
Vernacular: Unknown.
Habit: Herb.
Flowering period: October-April.
Status: Native.
Distribution: CH (Unknown), JU (Ledesma).
Habitat: Stream banks.
Uses: Unknown.
Specimens Examined: CH (Calcagnini s.n., LP 53182), JU (Cabrera 15831, LP).

4. **Acmella decumbens** (Sm.) R. K. Jansen var. **affinis** (Hook. & Arn.) R. K. Jansen
Syn.: *Spilanthes affinis* Hook. & Arn. - *S. micralloeophylla* A. H. Moore
Iconography: Ariza Espinar: 16, fig. 2. 2000.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: Spring-Summer.
Status: Native.
Distribution: CO (Colón, San Javier, Tulumba), SE (Ojo de Agua).
Habitat: Rocky, sandy, dry slopes (OCC).
Uses: Unknown.
Specimens Examined: CO (Fabris 1608, LP), SE (Maldonado 1588, LP).

5. **Acmella glaberrima** (Hassl.) R. K. Jansen
Syn.: *Spilanthes glaberrima* Hassl.
Iconography: -
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: October-April.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), FO (Pilagás, Pirané), SE (Gral. Belgrano, Gral. Taboada).
Habitat: Sandy soils, sandy river banks, weed in rice fields (OCC, ORI).
Uses: Unknown.
Specimens Examined: CH (Jansen et al. 745, LP), FO (Pierotti 16, LP), SE (Elisetch & Cano 86, BAB).

6. **Acmella pusilla** (Hook. & Arn.) R. K Jansen
Syn.: *Spilanthes americana* (L. f.) Hieron. f. *longiinternodiata* A. H. Moore -*S. pusilla* Hook. & Arn. - *S. stolonifera* DC. var. *pusilla* (Hook. & Arn.) Baker
Iconography: -
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: October-January, April.
Status: Native.
Distribution: CH (1° de Mayo), FO (Pilcomayo), SE (Ojo de Agua)
Habitat: Sandy river and lagoon sides, disturbed areas (OCC, ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 11826, BAB), FO (Piccinini & García 1042, BAB), SE (Piccinini & Hilfer 3937, BAB).

3. **AMBROSIA** L., 2 species.

1. Annual herbs. Segments of leaf blades ovate, 2-5 mm wide Male capitula arranged in terminal, racemiform capitulescences, to 13 cm long..... ....1. *A. elatior*
-. Perennial herbs, rhizomatous. Segments of leaf blades linear, 0.5-2 mm wide. Male capitula arranged in longer (to 30 cm long) terminal, racemiform capitulescences..... ....2. *A. tenuifolia*

1. **Ambrosia elatior** L.
Syn.: *Ambrosia artemisiifolia* L. var. *elatior* (L.) Descourt - *A. chilensis* Hook. & Arn.
Iconography: Cabrera: 336, fig. 193. 1974.- Cabrera: 325, fig. 136 A-B. 1978.- Ariza Espinar: 19, fig. 3. 2000.

Vernacular: "Ajenjo del campo", "altamisa", "altramisa", "artamisa", "artemisa", "hierba de la oveja".
Habit: Annual herb.
Flowering period: December-March,May.
Status: Native.
Distribution: CH (1° de Mayo, Cmte. Fernández, Gral. Güemes, Presidencia de La Plaza, Mayor Fontana), COR (Capital), FO (Laishi, Matacos, Patiño, Pilagás, Pilcomayo, Pirané), SE (Capital), SF (Gral. Obligado).
Habitat: Humid areas, stream banks, disturbed areas, weed in cultivated fields (OCC, ORI).
Uses: Vermifuge, purgative, antimicrobic, intermittent fever, insecticide, anticatarrhal, febrifugal, antihelmintics, sunstroke, antineuralgic, analgesic, anticephalalgic, pectoral, allergy, digestive, emmenagogue, contraceptive, antirheumatic (Freire & Urtubey, 2000a).
Specimens Examined: CH (Rodrigo 2673, LP), COR (Hunziker 5338, LP), FO (Rojas 8928, LP), SE (Ulibarri 1603, SI), SF (Covas & Ragonese 4445, LP).

2. **Ambrosia tenuifolia** Spreng.
Iconography: Baker: 150, fig. 49. 1884.- Cabrera: 187, fig. 52. 1963.- Cabrera: 135, fig. 127. 1971b.- Cabrera: 333, fig. 192 a-f. 1974.- Cabrera: 325, fig. 136. 1978.- Ariza Espinar: 21, fig. 4. 2000.
Vernacular: "Ajenjo del campo", "altamisa", "altramisa", "artamisa", "artemisa", "saltamisa", "yerba de la oveja".
Habit: Perennial herb.
Flowering period: February-April, December.
Status: Native.
Distribution: CH (1° de Mayo), CO (Colón, Santa María, Totoral), COR (Goya), FO (Formosa), SE (Aguirre, Ojo de Agua), SF (9 de Julio, Gral. Obligado, San Cristóbal).
Habitat: Usually fertile soils, also salty or dry soils, dunes, weed (OCC, ORI).
Uses: Abortifacient, contraceptive, carminative, vermifuge, febrifugal, antirheumatic, anticatarrhal, antihelmintic, carminative, intermittent fever, pectoral, stimulant, sunstroke, neuralgia, anticephalalgic (Freire & Urtubey, 2000a).
Specimens Examined: CH (Schulz 181, LP), CO (Hunziker 732, LP), COR (Schinini & Ahumada 12675, LP), FO (Piccinini & Petetín s. n., BAB), SE (EP 73, LP), SF (Job 1166, LP).
Obs.: Toxic for cattle (Freire et al., 2005).

4. **ANGELPHYTUM** G. M. Barroso, 2 species.

1. Leaves alternate (sometimes opposite near the base), subsessile.....1. *A. arnottii*
-. Leaves opposite, petiolate.....2. *A. aspilioides*

1. **Angelphytum arnottii** (Baker) H. Rob.
Syn.: *Verbesina arnottii* Baker - *Zexmenia arnottii* (Baker) Hassl.
Iconography: -
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: Spring-Summer.
Status: Native.
Distribution: CH (1° de Mayo, Sgt. Cabral).
Habitat: Rocky and sandy soils (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 100, BAB).

2. **Angelphytum aspilioides** (Griseb.) H. Rob.
Syn.: *Verbesina aspilioides* Griseb.- *Zexmenia aspilioides* (Griseb.) Hassl.
Iconography: Cabrera: 388, fig. 162 (sub nom *Zexmenia aspilioides*). 1978.- Ariza Espinar: 23, fig. 5. 2000.
Vernacular: Unknown.
Flowering period: Spring-Autumn.
Habit: Subshrub.
Status: Native.
Distribution: CH (1° de Mayo, 12 de Octubre, Chacabuco-Mayor Fontana), CO (Colón, Río Seco), FO (Bermejo, Patiño), JU (San Pedro, Santa Bárbara), SE (Alberdi, Copo, Guasayán, Sarmiento).
Habitat: Rocky soils on woodland borders (OCC, ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 2701, LP), CO (Hunziker 6997, LP), FO (Cabral & Molina 854, LP), JU

(Cabrera et al. 17249, LP), SE (Delucchi et al. 2055, LP).

5. **ASPILIA** Thouars, 3 species.

1. Stems erect, branched, to 2 m tall. Leaf blades ovate, petioles more than 5 mm long .....3. *A. silphioides*
- Stems erect, ascendent or decumbent. Leaves linear-lanceolate, lanceolate, or elliptic, sessile 2
2. Stems erect. Leaves linear-lanceolate, strigose, trichomes to 0.5 mm long..... .....2. *A. pascalioides*
- Stems decumbent or ascendent. Leaves lanceolate or elliptic, hispid on both surfaces, trichomes stiff and basally broadened, more than 1 mm long .....1. *A. montevidensis*

1. **Aspilia montevidensis** (Spreng.) Kuntze.
Syn.: *Aspilia arrillata* (DC.) Griseb. - *A. bupthalmiflora* (DC.) Griseb. - *A. calendulacea* (DC.) Griseb. - *Leighia arrillata* DC. - *L. bupthalmiflora* DC. - *L. calendulacea* DC. - *Verbesina montevidensis* Spreng. - *Wedelia montevidensis* (Spreng.) B. L. Turner

1. Leaf blades lanceolate, 40-85 x 3-12 mm .....var. *montevidensis*
-. Leaf blades elliptic or elliptic-lanceolate, 30-60 x 10-20 mm.....var. *setosa*

a) var. **montevidensis**
Iconography: -
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: September-April.
Status: Native.
Distribution: CH (Gral. Donovan, Libertador Gral. San Martín), FO (Formosa, Pilcomayo).
Habitat: Semi-sandy soils of fields or road sides (ORI).
Uses: Unknown.
Specimens Examined: CH (Schinini 22657, BAB), FO (Petetín & Molina 1474, BAB).

b) var. **setosa** (Griseb.) Cabrera
Syn.: *Aspilia setosa* Griseb.
Iconography: Cabrera: 363, fig. 211. 1974.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: September-April.
Status: Native.
Distribution: CH (1° de Mayo, Bermejo, Mayor Fontana), FO (Laishi).
Habitat: Idem the typical variety.
Uses: Unknown.
Specimens Examined: CH (Jorgensen 2028, SI), FO (Jorgensen 2930, SI).

2. **Aspilia pascalioides** Griseb.
Syn.: *Wedelia pascalioides* (Griseb.) B. L. Turner
Iconography: Cabrera: 362, fig. 210. 1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: October-April.
Status: Native.
Distribution: FO (Pilcomayo).
Habitat: "Esteros", river forest margins (ORI).
Uses: Unknown.
Specimen Examined: FO (Fortunato et al. 2782, SI).

3. **Aspilia silphioides** (Hook. & Arn.) Benth. & Hook. f.
Syn.: *Aspilia helianthoides* Benth. & Hook.f. - *Gymnopsis helianthoides* DC. - *Wedelia silphioides* (Hook. & Arn.) B. L. Turner (non *Leighia silphioides* Hook. & Arn.)
Iconography: Cabrera: 360, fig. 209. 1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: October-March.
Status: Native.
Distribution: CH (1° de Mayo, Bermejo), FO (Bermejo, Formosa, Pilcomayo).
Habitat: "Pajonales", forest margins (OCC, ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 183, BAB), FO (Jorgensen 2733, SI).

6. **BIDENS** L., 5 species.

1. Marginal corollas long ligulate, ligules more than 10 mm long.....2
-. Marginal corollas short ligulate, ligules less than 10 mm long.....3
2. Leaves sessile, margins entire.....2. *B. laevis*
-. Leaves petiolate, blades 2- or 3-pinnate.....1. *B. andicola* var. *decomposita*
3. Marginal corollas white. Phyllaries apically broadened. Cypselas 2 (3)-awned .....3. *B. pilosa* var. *minor*
-. Marginal corollas yellow. Phyllaries not or slightly apically broadened. Cypselas 4 (3)-awned 4
4. Leaf blades 2- or 3-pinnate.....4. *B. subalternans*
-. Leaf blades 3-5-foliolate.....5. *B. tenera*

1. **Bidens andicola** Kunth var. **decomposita** Kuntze
Syn.: *Bidens grandiflora* var. *brevifolia* Kuntze - *B. macrantha* Griseb.
Iconography: Cabrera: 412, fig. 172 A, B. 1978.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: Spring-Summer.
Status: Native.
Distribution: CO (Santa María).
Habitat: Mountain places, road sides (OCC).
Uses: Unknown.
Specimen Examined: CO (Cabrera et al. 16559, LP).

2. **Bidens laevis** (L.) Britton, Stern & Poggenb.
Syn.: *Bidens chrysanthemoides* Michk. - *B. helianthoides* Kunth - *Helianthus laevis* L.
Iconography: Cabrera: 146, fig. 137. 1971b.- Cabrera: 390, fig. 227. 1974.- Cabrera. 663, fig. 209. 1978.- Ariza Espinar: 28, fig. 6. 2000.
Vernacular: "Amor seco".
Habit: Perennial herb.
Flowering period: November, March-May.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), COR (Concepción, Saladas, San Cosme), FO (Pilcomayo).
Habitat: Swamps, river and stream banks, "esteros" (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 190, LP), COR (Krapovickas & Cristóbal 16518, LP), FO (Fortunato et al. 3958, BAB).

3. **Bidens pilosa** L. var. **minor** (Blume) Sherff
Syn.: *Bidens hispida* Kunth - *B. leucantha* Willd. var. *sundaica* (Blume) Hassk. - *B. pilosa* L. var. *brevifoliata* Hieron. - *B. pilosa* L. var. *dubia* (Cass.) O. E. Schulz - *B. sundaica* Blume - *B. sundaica* Blume var. *minor* Blume
Iconography: Cabrera: 416, fig. 174. 1978.
Vernacular: "Amor de viejo", "amor seco", "espina de erizo", "espina negra", "picón", "saetilla", "seltilla".
Habit: Annual herb.
Flowering period: February, May, November.
Status: Native.
Distribution: CH (1° de Mayo, Sgt. Cabral), CO (Colón), FO (Pilcomayo), SE (Capital, Guasayán).
Habitat: Disturbed areas (OCC, ORI).
Uses: Abortifacient, antiasthmatic, antibiotic, antirheumatic, antiseptic, digestive, headache, toothache, inflammations, refreshment, tonic, hepatic, icterus, antimicrobic, antiseptic, cholagogue, anemia, diabetes, diuretic, febrifugal, pectoral, vomits, cough, stomach pain (Freire & Urtubey, 2000c).
Specimens Examined: CH (Delucchi et al. 1988, LP), CO (Cabrera 1001, LP), FO (Piccinini & Leguizamón 2652, BAB), SE (Frenguelli 110, LP).

4. **Bidens subalternans** DC. **var. subalternans**
Syn.: *Bidens platensis* Manganaro - *B. quadrangularis* DC.
Iconography: Cabrera: 393, fig. 229. 1974.- Cabrera: 414, fig. 173 A-H. 1978.
Vernacular: "Amor de viejo", "amor seco", "espina de erizo", "pasto de los gringos", "saetilla".
Habit: Annual herb.
Flowering period: February, April, May, July, October-December.

Status: Native.
Distribution: CH (1° de Mayo, Bermejo, Cmte. Fernández, Mayor Fontana, San Fernando, Sgt. Cabral), CO (Santa María), COR (Capital, Saladas), For (Matacos), JU (Santa Bárbara), SF (Gral. Obligado), SE (Aguirre-Gral. Belgrano, Alberdi, Banda, Robles).
Habitat: Disturbed areas, weed (OCC, ORI).
Uses: Antiasthmatic, antibiotic, abortifacient, digestive, refreshment, ophthalmic, stomachal, toothache (Freire & Urtubey, 2000c).
Specimens Examined: CH (Delucchi et al. 1982, LP), CO (Job 2904, LP), COR (Cabrera 2980, LP), FO (Arenas 2380, SI), JU (Cabrera & Kiesling 25210, LP), SE (Maldonado 307, LP), SF (Azgami s.n., LP 4923).

5. **Bidens tenera** O. E. Schulz
Iconography: Cabrera: 418, fig. 175 A-H. 1978.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: May.
Status: Native.
Distribution: JU (Santa Bárbara).
Habitat: Mountain places.
Uses: Unknown.
Specimen Examined: JU (Cabrera et al. 14575, LP).

7. **CALEA** L., 5 species.

1. Clambering subshrubs to 3,5 m tall.....2
-. Perennial herbs less than 1 m tall.....3
2. Leaves glabrous.....4. *C. pinnatifida*
-. Leaves scabrous above and pubescent beneath.....1. *C. clematidea*
3. Capitula solitary.....5. *C. uniflora*
-. Capitulescences umbelliform.....4
4. Capitula discoid.....2. *C. hassleriana*
-. Capitula radiate.....3. *C. cymosa*

1. **Calea clematidea** Baker
Iconography: -.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: October.
Status: Native.
Distribution: COR (Capital).
Habitat: Humid areas, woodland, forest margins (ORI).
Uses: Unknown.
Specimen Examined: COR (Schulz 2722, LP).

2. **Calea cymosa** Less.
Iconography: Cabrera: 394, fig. 230.1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: October-December.
Status: Native.
Distribution: CH (1° de Mayo, Bermejo, Cmte. Fernández), COR (Bella Vista, Empedrado), FO (Laishi, Pilagás), SF (Gral. Obligado, San Javier, Vera).
Habitat: Rocky fields, sandy hills (ORI).
Uses: Unknown.
Specimens Examined: CH (Joergensen 2030, SI), COR (Pedersen 1847, LP), FO (Rojas 9034, LP), SF (Burkart 5727, LP).

3. **Calea hassleriana** Chodat
Iconography: -.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: Spring-Summer.
Status: Native.
Distribution: COR (Mburucuyá, San Cosme).
Habitat: Sandy soils (ORI).
Uses: Unknown.
Specimen Examined: COR (Pedersen 468, LP).

4. **Calea pinnatifida** (R. Br.) Less.
Syn.: *Actinea commutata* Spreng. - *Caleacte pinnatifida* R. Br. - *Micinna brasiliensis* Spreng.
Iconography: -.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: August.
Status: Native.
Distribution: COR (Gral. Paz).
Habitat: Humid soils, woodland, forest margins

(ORI).
Uses.: Unknown

Specimen Examined: COR (Schinini & Quarín 6986, LP).

5. **Calea uniflora** Less., *Linnaea* 5: 159. 1830.

1. Capitula discoid, without ligulate corollas.....var. *discoidea*
-. Capitula radiate.....var. *uniflora*

a) var. **discoidea** Baker
Syn.: *Calea pedunculosa* DC.
Iconography: Cabrera: 396, fig. 231 c. 1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: Spring.
Status: Native.
Distribution: COR (Goya).
Habitat: Unknown (ORI).
Uses: Unknown.
Specimen Examined: COR (Cabrera 10534, LP).

b) var. **uniflora**
Iconography: Cabrera 396, fig. 231 a,b. 1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: Spring-Summer.
Status: Native.
Distribution: COR (Capital, Lavalle, San Cosme).
Habitat: Sandy soils, dry river cliffs (ORI).
Uses: Unknown.
Specimen Examined: COR (Tressens et al. 129, LP).

8. **CALYPTOCARPUS** Less., 1 species.

1. **Calyptocarpus biaristatus** (DC.) H. Rob.
Syn.: *Blainvillea biaristata* DC. - *Oligogyne megapotamica* DC. - *O. synedrelloides* Hook. & Arn.
Iconography: Cabrera: 205, fig. 58 (sub *Blainvillea biaristata*). 1963.- Cabrera: 359, fig 208 (sub *Blainvillea biaristata*). 1974.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: Spring-Summer.
Status: Native.
Distribution: CH (San Fernando).
Habitat: Forest margins, humid areas (ORI).
Uses: Unknown.
Specimens Examined: CH (Sáenz & Morrone 584, LP).

9. **CHRYSANTHELLUM** Rich., 1 species.

1. **Chrysanthellum indicum** DC. var. **afroamericanum** B. L. Turner
Syn.: *Adenospermum tuberculatum* Hook. & Arn. - *Chrysanthellum argentinum* Ariza & Cerana - *C. tuberculatum* (Hook. & Arn.) Cabrera - *Plagiocheilus erectus* Rusby
Iconography: Cabrera: 397, fig. 167 (sub *C. tuberculatum*). 1978.- Ariza Espina: 37, fig. 10 (sub *Chrysanthellum tuberculatum*). 2000.
Vernacular: "Yerba de San Roque."
Habit: Annual herb.
Flowering period: January-April.
Status: Native.
Distribution: CH (9 de Julio), CO (Colón, Río Seco, Santa María), SE (Capital).
Habitat: Unknown (OCC).
Uses: Unknown.
Specimens Examined: CH (Schulz 266, LP), CO (Maldonado 1030, LP).

10. **COSMOS** Cav., 1 species

1. **Cosmos sulphureus** Cav.
Iconography: Ariza Espinar: 41, fig. 12. 2000.
Vernacular: "Cosmos."
Habit: Annual herb.
Flowering period: December-April.
Status: Adventive.
Distribution: COR (Capital), SE (Choya).
Habitat: Unknown (OCC, ORI).
Uses: Ornamental (Parodi, 1988), colouring, comforting the heart, maladies of the womb, ulcers, diuretic, antidote for scorpion stings, sores (Heinrich, 1996).
Specimens Examined: COR (Antonini 1, LP), SE (Hunziker et al. 24365, LP).

11. **ECLIPTA** L., 1 species.

1. **Eclipta prostrata** (L.) L.
Syn.: *Eclipta alba* (L.) Hassk. - *E. erecta* L. - *Galinsoga oblongifolia* DC. -

Polygyne inconspicua Phil. - *Verbesina alba* L. - *V. conyzoides* Trew - *V. prostrata* L. - *Wiborgia oblongifolia* Hook.
Iconography: Cabrera: 201, fig. 56 (sub *Eclipta alba*). 1963.- Cabrera: 347, fig. 200. 1974.- Cabrera: 350, fig. 147. 1978.- Pruski: 264, fig. 221. 1997.- Ariza Espinar 43, fig. 13. 2000.
Vernacular: "Eclipta."
Habit: Annual herb.
Flowering period: All year.
Status: Native.
Distribution: CH (1° de Mayo, 25 de Mayo, Cmte. Fernández, Gral. Güemes, Libertador Gral. San Martín, Mayor Fontana, San Fernando, Sgt. Cabral), COR (Capital, Goya, San Cosme, San Luis del Palmar), FO (Matacos, Patiño, Pilagás, Pilcomayo, Pirané) SE (Loreto, Pellegrini, Robles), SF (9 de Julio, Gral. Obligado, Vera).
Habitat: Invasive in rice fields, marshy soils, stream banks (OCC, ORI).
Uses: Medicinal (Zardini, 1984; Huang & Ling, 1996), astringent, cicatrizant, hemostatic, antiasthmatic, antihelminthic, depurative, insecticide, vulnerary, snake bites (Freire & Urtubey, 2000c), antibacterial, for soaps, paints, varnish and lubrication (Viswanathan & Singh, 1996), foodstuffs (Garg & Sastry, 1996, Huang & Ling, 1996).
Specimens Examined: CH (Delucchi 1976, LP), COR (Krapovickas & Cristóbal 16102, LP), FO (Guaglianone et al. 424, SI), SE (Maldonado 440, LP), SF (Krapovickas 716, LP).

12. **ENHYDRA** Lour., 1 species.

1. **Enhydra anagallis** Gardner
Iconography: Cabrera: 198, fig. 55. 1963.- Cabrera: 346, fig. 199. 1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: November-May.
Status: Native.
Distribution: CH (1° de Mayo, Sgt. Cabral), FO (Formosa, Laishi, Pirané), SF (Gral. Obligado).
Habitat: Swamps, "pajonales" (ORI).
Uses: Unknown.

15. **HELIANTHUS** L., 2 species.

Specimens Examined: CH (Schulz 147, LP), FO (Cabrera 18569, LP), SF (Cabrera 10465, LP).

13. **FLOURENSIA** DC., 1 species.

1. **Flourensia campestris** Griseb.
Syn.: *Helianthus campestris* (Griseb.) Kuntze
Iconography: Ariza Espinar: 47, fig. 14. 2000.
Vernacular: "Chilca."
Habit: Shrub.
Flowering period: November-February.
Status: Native.
Distribution: CO (Capital, Colón, Cruz del Eje, Santa María), LR (Gral. Belgrano), SE (Guasayán, Ojo de Agua).
Habitat: Slopes (OCC).
Uses: Unknown.
Specimens Examined: CO (Spegazzini s.n., ex LPS 10210, LP), LR (Ruiz Leal & Roig 17571, LP), SE (Rial Alberti 618, LP).

14. **GALINSOGA** Ruiz & Pav., 1 species.

1. **Galinsoga parviflora** Cav.
Syn.: *Adventina parviflora* Raf. - *Galinsoga quinqueradiata* Ruiz & Pav. - *Wiborgia acmella* Roth - *W. parviflora* (Cav.) Kunth
Iconography: Cabrera: 233, fig. 68. 1963.- Cabrera: 147, fig. 139. 1971b. Cabrera: 398, fig. 233. 1974.- Cabrera: 340, fig. 142 (K-M). 1978.- Ariza Espinar: 54, fig. 16. 2000.
Vernacular: "Albahaca silvestre", "galinsoga", "pacoyuyá fino", "paicojullo", "picao bravo", "saetilla".
Habit: Annual herb.
Flowering period: October-June.
Status: Adventive.
Distribution: CH (1° de Mayo), FO (Patiño, Pilcomayo), SE (Choya).
Habitat: Weed, disturbed areas (OCC, ORI).
Uses: Medicinal, antiscorbutic, vulnerary (Freire & Urtubey, 2000c), used as vegetable (Garg & Sastry, 1996).
Specimens Examined: CH (Schulz 9243, BAB), FO (Joergensen 3138, SI), SE (Pérez Moreau & Petetín 4462, BAB).

1. Capitula 8-15 cm diam., solitary, rarely more than one. Phyllaries acuminate..1. *H. annuus*
-. Capitula to 5 cm diam. Capitulescences loose-corymbiform of 2-4 capitula. Phyllaries gradually attenuate.....2. *H. petiolaris*

1. **Helianthus annuus** L.
Syn.: *Helianthus aridus* Rydb. - *H. erythrocarpus* Barth. - *H. indicus* L. - *H. lenticularis* Douglas - *H. macrocarpus* DC. - *H. multiflorus* Hook. - *H ovatus* Lehm. - *H. platycephalus* Cass. - *H. tubaeformis* Nutt.
Iconography: Cabrera: 216, fig. 62. 1963.- Cabrera: 366, fig. 212 (a-j). 1974.
Vernacular: "Girasol", "g. chico", "g. guacho", "mirasol".
Habit: Annual herb.
Flowering period: July-February.
Status: Naturalized.
Distribution: CH (Mayor Fontana, San Fernando), COR (Empedrado).
Habitat: Road sides (ORI).
Uses: Ornamental (Parodi, 1988, Heinrich, 1996), oleiferous (Parodi, 1988), antipyretic, anticatarrhal. antiasthmatic, antimicrobic, antineuralgia, digestive, febrifugal, hemolytic, sudorific, vulnerary, stomatic, migraine, cold, sexual stimulant, wart (Freire & Urtubey, 2000c), edible oil (Garg & Sastry, 1996).
Specimens Examined: COR (Krapovickas & Critóbal 25670, LP), CH (Boffa 1042, LP).

2. **Helianthus petiolaris** Nutt.
Iconography: Ariza Espinar: 58, fig. 17. 2000.
Vernacular: "Girasol silvestre", "mirasolcito".
Habit: Annual herb.
Flowering period: October-January.
Status: Adventive.
Distribution: CO (Santa María), COR (Bella Vista).
Habitat: Road sides, disturbed fertile areas (OCC, ORI).
Uses: Ornamental (Parodi, 1988).
Specimens Examined: CO (not seen), COR (Cáceres 147, CTES).

16. **HETEROSPERMA** Cav., 1 species.

1. **Heterosperma ovatifolium** Cav.
Syn.: *Bidens rhombifolia* Sch. Bip. - *Heterospermum maritimum* Kunth - *H ovatum* Willd. - *Heterosperma pinnatum* Kunth var. *maritimum* (Kunth) Kuntze - *H. pinnatum* Kunth var. *ovatifolium* (Cav.) Kuntze - *H. rhombifolium* (Sch. Bip.) Griseb.
Iconography: Cabrera: 400, fig. 168. 1978.- Ariza Espinar: 60, fig. 18. 2000.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: January-March.
Status: Native.
Distribution: SE (Guasayán).
Habitat: Weed, roads, disturbed places (OCC).
Uses: Unknown.
Specimen Examined: SE (Molina et al. 1339, BAB).

17. **ISOSTIGMA** Less., 1 species.

1. **Isostigma peucedanifolium** (Spreng.) Less.
Syn.: *Tragopogon peucedanifolium* Spreng.
Iconography: -
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: November-May.
Status: Native.
Distribution: COR (Bella Vista, Capital, Empedrado, Lavalle, Saladas, San Cosme, San Roque).
Habitat: Fields, sandy cliffs (ORI).
Uses: Unknown.
Specimens Examined: COR (Ybarrola 123, NY).
Obs.: *I. hoffmannii* is dubious for the area.

18. **JAEGERIA** Kunth, 1 species.

1. **Jaegeria hirta** (Lag.) Less.
Syn.: *Acmella hirta* Lag. - *Jaegeria bellidioides* Spreng. - *J. discoidea* Klatt - *J. hirta* (Lag.) Less. var. *glabra* Baker - *J. mniodes* Kunth - *J. parviflora* DC. - *J. repens* DC. - *Spilanthes ecliptoides* Gardner - *S. karvinskiana* DC. - *S. mariannae* DC. - *S. sessilifolia* Hemsl.
Iconography: Cabrera: 196, fig. 54. 1963.- Cabrera: 344, fig. 198. 1974.- Cabrera: 349, fig. 146. 1978.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: October-April.
Status: Native.
Distribution: CH (San Fernando), COR (Capital).

Habitat: Unknown (ORI).
Uses: Unknown.
Specimens Examined: CH (Sáenz & Morrone 593, LP), COR (Alboff s.n., LP 4695).

19. **LAGASCEA** Cav., nom. cons., 1 species.

1. **Lagascea mollis** Cav.
Syn.: *Lagascea campestris* Gardner - *L. kunthiana* Gardner - *L. parvifolia* Klatt - *Noccaea mollis* (Cav.) Jacq.
Iconography: Cabrera: 312, fig. 129. 1978.- Ariza Espinar: 66, fig. 20. 2000.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: March-May.
Status: Native.
Distribution: CH (1° de Mayo), FO (Formosa, Laishi, Matacos), JU (Santa Bárbara), SE (Ojo de Agua, Pellegrini).
Habitat: Forest margins, humid and shady places, swamps, disturbed areas (OCC, ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 16236, BAB), FO (Jorgensen 2732, SI), JU (Cabrera et al. 23638, LP), SE (Venturi 5965, LIL).

20. **MELANTHERA** Rohr

1. **Melanthera latifolia** (Gardner) Cabrera
Syn.: *Echinocephalum latifolium* Gardner
Iconography: Cabrera: 357, fig. 207. 1974.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: September-February.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), COR (Capital, Empedrado), FO (Formosa, Pilcomayo, Pirané), SF (Gral. Obligado).
Habitat: Humid areas on forest margins, stream banks (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 109, BAB), COR (Rodrigo 906, LP), FO (Delucchi 1954, LP), SF (Gebhard 29, LP).

21. **PARTHENIUM** L., 1 species.

1. **Parthenium hysterophorus** L.
Syn.: *Argyrochaeta bipinnatifida* Cav. - *Echetrosis pentasperma* Phil. - *Parthenium lobatum* Buckley - *P. pinnatifidum* Stokes
Iconography: Cabrera: 136, fig. 128. 1971b.- Cabrera: 343, fig. 197. 1974.- Ariza Espinar: 67, fig. 21. 2000.
Vernacular: "Ajenjo", "altamisa", "a. del campo", "artemisilla", "botonera", "cicutella", "escoba amarga", "e. negra", "falsa altamisa", "hierba de la oveja", "yerba de la oveja".
Habit: Annual herb.
Flowering period: September-May.
Status: Native.
Distribution: CH (9 de Julio, 12 de Octubre, Gral. Güemes, Maipú, Sgt. Cabral), CO (Capital, Colón, Cruz del Eje, Río Seco, Santa María, Sobremonte, Tulumba), FO (Formosa, Matacos, Pirané), LR (Capital, Gral. Belgrano), SF (9 de Julio, San Cristóbal), SE (Brig. Ibarra, Capital, Banda, Gral. Belgrano, Figueroa, Guasayán, Loreto, Ojo de Agua).
Habitat: Cultivated fields, train-tracks, road sides, urban areas, weed (OCC, ORI).
Uses: Antitusive, antipyretic, antirheumatic, analgesic, anti-inflammatory, malaria, facial, neuralgia, vermifuge, epilepsy, muscular aches, snake bites, headache, stomach pains, skin infection, emenagogue, tonic, etc. (Freire & Urtubey, 2000c).
Specimens Examined: CH (Delucchi et al. 2002, LP), CO (Hunziker 4821, LP), FO (Delucchi et al. 1961, LP), LR (Ruiz Leal & Roig 17625, LP), SE (Delucchi et al. 2033, LP), SF (Krapovickas 798, LP).

22. **RATIBIDA** Raf., 1 species.

1. **Ratibida columnifera** (Nutt.) Woot. & Standl. f. **columnifera**
Iconography: -.
Vernacular: Unknown.
Habit: Herb.
Flowering period: Unknown.
Status: Adventive.
Distribution: SF (Gral. Obligado).
Habitat: Disturbed places.
Uses: Unknown.
Specimen Examined: SF (Quarín 600, LP).

23. **SANVITALIA** Lam., 1 species.

1. **Sanvitalia versicolor** Griseb.

Iconography: Cabrera: 330, fig. 138. 1978.- Ariza Espinar: 75, fig. 24. 2000.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: January-March.
Status: Native.
Distribution: CO (Unknown), SA (Metán), SE (Guasayán, Pellegrini).
Habitat: Secondary weed in cultivated fields (OCC).
Uses: Unknown.
Specimens Examined: CO (not seen), SA (Jansen & Sarandón 767, LP), SE (Bartlett 20415, LP).

24. **SIMSIA** Pers., 1 species.

1. **Simsia dombeyana** DC.
Syn.: *Encelia hirsuta* Kuntze - *E. hirsuta* Kuntze var. *radiata* Kuntze - *Simsia hirsuta* (Kuntze) S. F. Blake
Iconography: Cabrera: 384, fig. 224. 1974.- Cabrera: 390, fig. 163. 1978.- Ariza Espinar: 79, fig. 26. 2000.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: December-January.
Status: Native.
Distribution: CH (12 de Octubre, Cmte. Fernández), CO (Capital, Colón, Pocho, Río Seco, Santa María), LR (Gral. Belgrano), SE (Choya).
Habitat: Road sides, disturbed areas (OCC, ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 241, LP), CO (Spegazzini s.n., ex LPS 13775, LP), LR (Roig & Ruiz Leal 17253, LP), SE (de la Sota 810, LIL).

25. **SPHAGNETICOLA** O. Hoffm., 1 species.

1. **Sphagneticola brachycarpa** (Baker) Pruski
Syn.: *Aspilia callosa* Chodat - *A. silphioides* Chodat f. *parvifolia* Chodat - *Stemmodontia brachycarpa* (Baker) Morong - *Thelechitonia brachycarpa* (Baker) H. Rob. & Cuatrec. - *T. muricata* Cuatrec. - *Wedelia brachycarpa* Baker - *W. callosa* (Chodat) B. L. Turner - *W. pilosa* Baker - *W. pilosa* Baker var. *brachycarpa* (Baker) Hassl.
Iconography: Cabrera: 351, fig. 202 (sub nom *Wedelia brachycarpa*). 1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: September-February.
Status: Native.
Distribution: CH (1° de Mayo, Bermejo, San Fernando), FO (Formosa, Laishi, Pilagás, Pilcomayo, Pirané).
Habitat: Shady areas on forest margins (ORI).
Uses: Unknown.
Specimens Examined: CH (Rojas 12357, LP), FO (Boelcke 13517, BAB).

26. **SYNEDRELLOPSIS** Hieron. & Kuntze, 1 species.

1. **Synedrellopsis grisebachii** Hieron. & Kuntze
Iconography: Cabrera: 315, fig. 131. 1978.- Ariza Espinar: 82, fig. 27. 2000.
Vernacular: "Yerba del pollo".
Flowering period: January-May.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), COR (Empedrado), FO (Matacos, Patiño, Pirané), SE (Capital, Pellegrini).
Habitat: Woodlands, secondary weed (OCC, ORI).
Uses: Medicinal (Zardini, 1984).
Specimens Examined: CH (Schulz 17296, BAB), COR (Pedersen 3885, LP), FO (Molina et al. 198, BAB), SE (EP 39, LP).

27. **THELESPERMA** Less., 1 species.

1. **Thelesperma megapotamicum** (Spreng.) Kuntze
Syn.: *Bidens gracilis* Torr. - *B. leyboldii* Phil. - *B. megapotamica* Spreng. (non O. E. Schulz) - *B. paradoxa* Don ex Hook. & Arn. - *Cosmidium gracile* (Torr.) Torr. & A. Gray - *Isostigma megapotamicum* (Spreng.) Sherff - *Thelesperma gracile* (Torr.) A Gray - *T. megapotamica* (Spreng.) Herter - *T. scabiosoides* Less.
Iconography: Cabrera: 226, fig. 65. 1963.- Cabrera: 143, fig. 136. 1971b.- Cabrera: 388, fig. 226. 1974.- Ariza Espinar: 84, fig. 28. 2000.
Vernacular: "Té indio", "t. pampa".
Habit: Subshrub.
Flowering period: Summer.
Status: Native.
Distribution: CO (Capital, Colón, Pocho, Río Primero, Santa María), SE (Gral. Belgrano, Rivadavia).

Habitat: Stony and sandy soils (OCC).
Uses: Medicinal (Zardini, 1984).
Specimens Examined: CO (Spegazzini s.n., ex LPS 13142, LP), SE (Schulz 1294, LIL).

28. **TITHONIA** Desf., 2 species.

1. Involucre 3-4-seriate, phyllaries to 10 mm wide, pubescent. Marginal corollas red-orange. Leaf blades 3-lobed, sometimes entire. Paleae acuminate or short-aristate. Peduncle apically pubescent, glabrous at maturity.....1. *T. rotundifolia*
-. Involucre 2-seriate, phyllaries to 4 mm wide, densely hirsute. Marginal corollas yellow-orange. Leaf blades entire. Paleae aristate. Peduncles apically long-hirsute .....2. *T. tubaeformis*

1. **Tithonia rotundifolia** (Mill.) S. F. Blake
Syn.: *Tagetes rotundifolia* Mill. - *Tithonia uniflora* J. F. Gmel.
Iconography: Zardini: 423, fig. 1 A-D. 1974.
Vernacular: "Mirasol mejicano".
Habit: Annual herb.
Flowering period: March-April.
Status: Adventive.
Distribution: CH (Alm. Brown, Cmte. Fernández), SE (Capital, Choya-Guasayán).
Habitat: Unknown (OCC, ORI).
Uses: Ornamental (Cabrera, 1978, Parodi, 1988), anti-inflammatory, dermatological problems, desinfecting, skin eruptions, feber, yellow feber, vomiting with blood (Heinrich, 1996), soup, cosmetics, esters of flavours and perfumes, metallic palmilates, water proofing (Viswanathan & Singh, 1996), for a low-cholesterol diet for heart-patients (Garg & Sastry, 1996).
Specimens Examined: CH (Krapovickas et al. 47502, CTES), SE (EP 54, LP).

2. **Tithonia tubaeformis** (Jacq.) Cass.
Syn.: *Helianthus tubaeformis* Jacq.
Iconography: Zardini: 423, fig. 1 E-J. 1974.- Cabrera: 367, fig. 154. 1978.
Vernacular: "Girasol silvestre", "pasto cubano".
Habit: Annual herb.
Flowering period: April-October.
Status: Adventive.
Distribution: CH (Cmte. Fernández), JU (Santa Bárbara, San Pedro), SE (Capital).
Habitat: Humid soils, disturbed soils, road sides (OCC).
Uses: Ornamental (Cabrera, 1978).
Specimens Examined: CH (Bonacic Kresic & Pérez s.n., LP), JU (Cabrera et al. 25469, LP), SE (EP 254, LP).

29. **VERBESINA** L., 4 species.

1. Capitula radiate.....2
-. Capitula discoid.....4. *V. suncho*
2. Capitula numerous, shortly pedunculate, capitulescences dense-corymbiform. Marginal corollas white.....2. *V. macrophylla var nelidae*
-. Capitula few, long pedunculate. Marginal corollas yellow.....3
3. Leaves petiolate, blades wide-ovate. Annual herbs.....1. *V. encelioides*
-. Leaves sessile, lanceolate. Subshrubs.....3. *V. subcordata*

1. **Verbesina encelioides** (Cav.) Benth. & Hook. ex A. Gray
Syn.: *Verbesina australis* Baker - *V. scabra* Phil. - *Ximenesia encelioides* Cav. - *X. microptera* DC.
Iconography: Cabrera: 223, fig. 64. 1963.- Cabrera: 143, fig. 133. 1971b.- Cabrera: 372, fig. 215. 1974.- Cabrera: 377, fig. 157. 1978.- Ariza Espinar. 89, fig. 30. 2000.
Vernacular: "Chinita", "flor de Santa María", "girasolcito", "g. del campo", "girasolillo", "girasolito", "mirasol", "mirasolcito","m. del campo", "mirasolillo", "quellusisa", "quelluzisa", "queyucisa", "Santa María",

"sisaquello", "suncho", "yuyo de Santa María".
Habit: Annual herb.
Flowering period: October-March.
Status: Native.
Distribution: CH (1° de Mayo, Gral. Güemes, Mayor Fontana, San Fernando), CO (Capital, Colón, Río Primero, Río Seco), COR (Capital, Bella Vista, Rio Seco), FO (Bermejo, Matacos, Patiño, Pirané, Ramón Lista), JU (Ledesma, Santa Bárbara), LR (Capital, Gral. San Martín), SA (Metán), SE (Brig. Ibarra, Capital, Choya, Copo, Guasayán, La Banda, Moreno, Ojo de Agua, Rivadavia, Robles, Silípica), SF (San Cristóbal).
Habitat: Disturbed soils, weed-like (OCC, ORI).
Uses: Antihemorrhagic, vulnerary, cicatrizant, partum analgesic, for desinfecting ulcers, wart (Freire & Urtubey, 2000c), ornamental (Parodi, 1988).
Specimens Examined: CH (Delucchi 2012, LP), CO (Bruch s.n., LP 4871), COR (Myndel Pedersen 2807, LP), FO (Cabrera et al. 26557, LP), JU (Fabris 4570, LP), SA (Krapovickas et al. 18573, LP), SE (Delucchi 2039, LP), SF (Ragonese 327, LP).
Obs.: Toxic for cattle (Freire et al., 2005).

2. **Verbesina macrophylla** (Lam.) S. F. Blake var. **nelidae** (Cabrera) Olsen
Syn.: *Verbesina nelidae* Cabrera
Iconography: Cabrera: 378, fig. 158 (sub *Verbesina nelidae*). 1978.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: Summer.
Status: Native.
Distribution: JU (Ledesma, San Pedro, Santa Bárbara), SA (Anta).
Habitat: Slopes with humid woods (OCC).
Uses: Unknown.
Specimens Examined: JU (Fabris & Crisci 7290, LP), SA (Meyer 18377, LP).

3. **Verbesina subcordata** DC.
Syn.: *Verbesina auriculata* Hook. & Arn. - *V. heterosperma* Griseb.
Iconography: Cabrera: 373, fig. 216. 1974.
Vernacular: "Girasoliyo".
Habit: Subshrub.
Flowering period: October-March.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), COR (Capital, Bella Vista, San Roque), FO (Bermejo, Formosa, Pilcomayo).
Habitat: Shady areas, forest margins (OCC, ORI).
Uses: Medicinal (Freire & Urtubey, 2000c).
Specimens Examined: CH (Schulz 107, LP), COR (Krapovickas & Cristóbal 34253, LP), FO (Morel 7732, LP).

4. **Verbesina suncho** (Griseb.) S. F. Blake
Syn.: *Chaenocephalus heterophyllus* Griseb. - *C. macrophyllus* Griseb. - *C. suncho* Griseb. - *Verbesina allophylla* S. F. Blake - *V. octantha* S. F. Blake
Iconography: Cabrera : 380, fig. 159. 1978.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: February-August.
Status: Native.
Distribution: JU (Ledesma, San Pedro), SA (Anta).
Habitat: Clearings of transitional with montane grasslands, humid woods (OCC).
Uses: Unknown.
Specimens Examined: JU (Cabrera 15829, LP), SA (Ragonese 297, LP).

30. **VIGUIERA** Kunth, 3 species.

1. Leaf blades linear or linear-lanceolate.....3. *V. tucumanensis var. oligodonta*
-. Leaf blades lanceolate, ovate-lanceolate or oblong-lanceolate.....2
2. Leaf blades ovate-lanceolate or oblong-lanceolate, concolorous, strigose-pubescent on both surfaces.....1. *V. guaranitica*
-. Leaf blades lanceolate, discolorous, ray-hairy beneath.....2. *V. tuberosa*

1. **Viguiera guaranitica** Chodat
Iconography: -.
Vernacular: "Iap koskamá tahká".
Habit: Perennial herb.
Flowering period: August-May.
Status: Native.
Distribution: CH (9 de Julio, Mayor Fontana, Presidencia de La Plaza, Sgt.

Cabral), FO (Formosa-Gral. Güemes-Libertador Gral. San Martín, Patiño), SE (Copo).
Habitat: Disturbed soils, road sides (OCC, ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 926, LP), FO (Cabral 681, SI), SE (Fortunato et al. 1598, SI).

2. **Viguiera tuberosa** Griseb.
Iconography: Cabrera: 369, fig. 213. 1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: Spring-Summer.
Status: Native.
Distribution: CH (1° de Mayo, San Lorenzo), COR (Bella Vista, Empedrado, Lavalle), FO (unknown), SF (San Cristóbal, San Javier), SE (Brig. Ibarra, Moreno).
Habitat: Gravel, river cliffs (OCC, ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 188, LP), COR (Schinini & Critóbal 9800, LP), FO (Fortunato et al. 2707, SI), SF (Ragonese 3058, LP), SE (Ragonese & Castiglioni 7234 , SI).

3. **Viguiera tucumanensis** (Hook. & Arn.) Griseb. var. **oligodonta** (S. F. Blake) Cabrera
Syn.: *Viguiera oligodonta* S. F. Blake
Iconography: Cabrera: 372, fig. 156 I-K. 1978.- Ariza Espinar: 95, fig. 33. 2000.
Vernacular: "Sunchillo".
Habit: Subshrub.
Flowering period: August-May.
Status: Native.
Distribution: CO (Capital, Colón, Santa María, Sobremonte, Totoral, Tulumba).
Habitat: Road sides (OCC).
Uses: Unknown.
Specimen Examined: CO (Hunziker 9193, LP).

31. **WEDELIA** Jacq., 3 species.

1. Annual herbs, stems erect or decumbent. Involucre campanulate.....2. *W. kerrii*
- Perennial herbs, rhizomatous, stems erect. Involucre hemispherical.....2
2. Leaves subsessile, leaf blades lanceolate or linear-lanceolate, 40-150 x 4-20 mm, margins dentate, with 1-5 pairs of teeth.....1. *W. glauca*
- Leaves petiolate (petioles 10-20 mm long), leaf blades elliptic-lanceolate, 70-130 mm x 25-60 mm, margins dentate with more than 5 pairs of teeth.....3. *W. subvaginata*

1. **Wedelia glauca** (Ortega) Hoffm. ex Hicken
Syn.: *Aspilia ecliptaefolia* Baker - *Helianthus copiapanus* Phil. - *Leighia ecliptaefolia* DC. - *Lorentzia pascaloides* Griseb. - *Pascalia glauca* Ortega - *Wedelia chrysostephana* Griseb. - *W. copiapana* (Phil.) Reiche - *W. ecliptaefolia* (DC.) B. L. Turner
Iconography: Cabrera: 208, fig. 59. 1963.- Cabrera: 136, fig. 129. 1971b.- Cabrera: 352, fig. 203; 354, fig. 205 a-e. 1974.- Cabrera: 354, fig. 149. 1978.
Vernacular: "Asolador", "chilca amarga", "chilquilla", "chinita", "clavel amarillo", "clavelillo", "duraznillo", "espanta colono", "flor de sapo", "kaiél-kaiél", "lengua de sapo", "margarita", "mata sapo", "mirasolcito", "seca tierra", "sunchillo", "suncho", "yerba del sapo", "yuyo sapo".
Habit: Perennial herb.
Flowering period: November-March.
Status: Native.
Distribution: CH (1° de mayo, Cmte. Fernández, Gral. Güemes, Mayor Fontana, San Lorenzo), CO (Santa María, Sobremonte, Tulumba), FO (Laishi), SE (Aguirre, Capital, Río Hondo), SF (Gral. Obligado), TU (Burruyacú).
Habitat: Agressive weed, widespread (OCC, ORI).
Uses: Medicinal (Freire & Urtubey, 2000c).
Specimens Examined: CH (Rodrigo 2635, LP), CO (Hunziker 731, LP), FO (Piccinini & Petetín 3503, BAB), SE (Delucchi 2119, LP), SF (Ragonese 3119, LP), TU (Varela s.n., LP 892882).
Obs.: Toxic (Cabrera, 1971b, 1974).

2. **Wedelia kerrii** N. E. Br.
Syn.: *Wedelia kerrii* N. E. Br. var. *decumbens* Hassl. - *W. longepetiolata* Hassl.
Iconography: -
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: October-December.

Status: Native.
Distribution: CH (1° de Mayo), COR (Capital).
Habitat: Sunny forest, river, shrublands, disturbed areas (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 214, LP), COR (Krapovickas & Cristóbal 11774, LP).

3. **Wedelia subvaginata** N. E. Br.
Syn.: *Pascalia subvaginata* (N. E. Br.) Strother - *Wedelia crassiuscula* S. F. Blake - *W. subvaginata* N. E. Br. var. *major* Hassl.
Iconography: Cabrera: 354, fig. 205 (f-m). 1974.- Cabrera: 356, fig. 206. 1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: November-February.
Status: Native.
Distribution: CH (1° de Mayo, Bermejo, Libertador Gral. San Martín, San Fernando), FO (Laishi, Pilcomayo), SF (Gral. Obligado) .
Habitat: Flooding soils, clayey soils (ORI).
Uses: Unknown.
Specimens Examined: CH (Delucchi 1962, LP), FO (Fortunato et al. 2716, SI), SF (Ragonese 3259, LP).

32. **XANTHIUM** L., 2 species.

1. Unarmed plants. Leaf blades rough on both surfaces, wide-ovate. Pseudo-fruits 15-25 mm long.....1. *X. cavanillesii*
-. Plants spiny. Leaf blades white-tomentose beneath, lanceolate. Pseudo-fruits 6-12 mm long.....2. *X. spinosum*

1. **Xanthium cavanillesii** Schouw
Syn.: *Xanthium australe* Millsp. & Sherff - *X. cavanillesii* Schouw var. *cordobense* Widde ex Parodi - *X. strumarium* L. ssp. *cavanillesii* (Schouw) Löve & Dansereau
Iconography: Cabrera: 192, fig. 53. 1963.- Cabrera: 130, fig. 123. 1971b.- Cabrera: 329, fig. 189. 1974.- Cabrera: 321, fig. 134. 1978.- Ariza Espinar: 102, fig. 35. 2000.
Vernacular: "Abrojo", "a. grande", "a. macho", "atulatulét", "cadillo", "nagarai lâteé", "pôko lâteé".
Habit: Annual herb.
Flowering period: January-March.
Status: Native.
Distribution: CO (Capital, Colón, Cruz del Eje, Río Primero, Sobremonte), CH (1° de Mayo, Cmte. Fernández), FO (Laishi, Pilcomayo), SF (9 de Julio, Gral. Obligado).
Habitat: Weed, cultivated fields, road sides, fertile and somewhat salty soils (ORI).
Uses: Febrifugal, digestive, diuretic, antispasmodic, for desinfecting, ulcers, purgative, influenza, renal diseases (Freire & Urtubey, 1999a).
Specimens Examined: CH (Schulz 169, LP), CO (not seen), FO (Petetín & Molina 1551, BAB), SF (Job 1148, LP).
Obs.: Toxic for cattle (Freire et al., 2005).

2. **Xanthium spinosum** L. var. **spinosum**
Syn.: *Acanthoxanthium spinosum* (L.) Fourr.
Iconography: Cabrera: 132, fig. 124. 1971b.- Cabrera: 331, fig. 191. 1974.- Cabrera: 323, fig. 135 (I,J). 1978.- Ariza Espinar: 103, fig. 36. 2000.
Vernacular: "Abrojillo", "abrojito", "abrojo", "a. chico", "amor de negro", "atulét", "cachurera", "carapicho bravo", "cepa caballo", "elperín", "espinho de camerro", "i(a)rát", "i(a)rát tráráik", "kachú", "kewell", "kis (!)i-kis (!)i", "kokelén".
Habit: Annual herb.
Flowering period: November-March.
Status: Native.
Distribution: CH (1° de Mayo, 9 de Julio, 12 de Octubre, Mayor Fontana, Sgto. Cabral), CO (Río Primero), FO (Patiño), SE (Capital, Guasayán, Ojo de Agua), SF (9 de Julio, San Cristóbal).
Habitat: Weed, uncultivated and cultivated fields, road sides, gutter, clay and humid soils (OCC, ORI).
Uses: Febrifugal, intermittent fever, bladder and back pains, stomachal, renal and hepatic diseases, measles, mumps, malaria, antispasmodic, antirheumatic, antiseptic, depurative, purgative, digestive, refreshment,

resolvent, dyspepsia, laxative, cholagogue, lung infections, for desinfecting ulcers,venereal tumors, antiputrescent, emolient, ocular inflammations (Freire & Urtubey, 1999a), diuretic, edible oil (Garg & Sastry, 1996).
Specimens Examined: CH (Delucchi 2031, LP), CO (not seen), FO (Petetín et al. 1811, BAB), SE (Delucchi 2063, LP), SF (Job 1097, LP).

33. **ZEXMENIA** La Llave & Lex., 2 species.

1. Leaf blades ovate or ovate-lanceolate, 25-70 x 10-35 mm. Involucre 5-6 x 6-7 mm ..... 1. *Z. brachylepis*
-. Leaf blades linear-lanceolate or lanceolate, 45-65 x 3-8 mm. Involucre 9-12 mm x 17-20 mm ..... 2. *Z. bupthalmiflora*

1. **Zexmenia brachylepis** (Griseb.) Cabrera
Syn.: *Wedelia brachylepis* Griseb.
Iconography: Cabrera: 385, fig. 161. 1978.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: December-June.
Status: Native.
Distribution: CH (Gral. Güemes, Maipú, Mayor Fontana, Presidencia de La Plaza, Tapenagá), FO (Bermejo, Matacos, Patiño), SE (Alberdi, Copo, Pellegrini).
Habitat: Prairies or rocky slopes (OCC, ORI).
Uses: Unknown.
Specimens Examined: CH (Cabral 720, SI), FO (Molina et al. 413, BAB), SE (Molina & Hilfer 3110, SI).

2. **Zexmenia bupthalmiflora** (Lorentz) Ariza
Syn.: *Wedelia bupthalmiflora* Lorentz
Iconography: Ariza Espinar: 99, fig. 34 (sub *Wedelia bupthalmiflora*). 2000.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: November.
Status: Native.
Distribution: CO (Capital), SE (Ojo de Agua).
Habitat: Rocky soils (OCC).
Uses: Ornamental (Parodi, 1988).
Specimens Examined: CO (Spegazzini s. n., LP), SE (Pérez Moreau et al. 4143, BAB).

1. **Zinnia peruviana** (L.) L.
Syn.: *Chrysogonum peruvianum* L. - *Crassina peruviana* (L.) Kuntze - *C. peruviana* (L.) Kuntze var. *flava* (Kuntze) Seckt - *Zinnia intermedia* Engelm. - *Z. leptopoda* DC. - *Z. mendocina* Phil. - *Z. multiflora* L. - *Z. pauciflora* L. - *Z. revoluta* Cav. - *Z. tenuiflora* Jacq. - *Z. verticillata* Andrews
Iconography: Cabrera: 328, fig. 137. 1978.
Ariza Espinar: 106, fig. 37. 2000.
Vernacular: "Chinita del campo", "clavel de chuchu", "clavelina", "c. del monte", "conejito de la sierra", "muchacho", "zinnia".
Habit: Annual herb.
Flowering period: November-March.
Status: Native.
Distribution: CH (1º de Mayo), CO (Capital, Colón, Cruz del Eje, Minas, Río Primero, Río Seco, Santa María, Sobremonte, Totoral), FO (Patiño), SE (28 de Marzo, Capital, Gral. Taboada, Guasayán, Banda, Ojo de Agua, Robles), LR (Capital, Gral. Belgrano, Gral. San Martín).
Habitat: Clearings, disturbed areas, near train-tracks, road sides, cultivated fields (OCC, ORI).
Uses: Ornamental (Parodi, 1988), intermittent fever (Heinrich, 1996).
Specimens Examined: CH (Schulz 919, BAB), CO (not seen), FO (Fortunato et al. 3227, SI), LR (not seen), SE (Maldonado 984, LP).

34. **ZINNIA** L., nom. cons., 1 species.

7. Tribe **INULEAE**. 11 genera, 31 species, 1 variety.

1. Receptacle paleate ..... 7. *Micropsis*

- Receptacle epaleate....2
2. Styles of central florets obtuse to rounded pilose far down the shaft below the point of bifurcation or acute with hairs not reaching the bifurcation....3
- Styles branches truncate or rounded, apically pilose or with hairs dorsally....6
3. Capitula sessile, arranged in glomerules or spikes....9. *Pterocaulon*
- Capitula pedunculated, solitary or few to many together in terminal corymbs....4
4. Central florets functionally staminate. Pappus of slender capillary bristles....5
- Central florets bisexual. Pappus of stiff bristles....10. *Stenachaenium*
5. Trees or shrubs. Central florets 1-18....11. *Tessaria*
- Shrubs or herbs. Central florets 25-50, rarely 3-5, then herbs....8. *Pluchea*
6. Pappus of plumose capillary bristles....7
- Pappus of scabrous capillary bristles....8
7. Cypselas apically with 8-12 long twin hairs, resembling fine pappus bristles....2. *Berroa*
- Cypselas apically without long twin hairs....4. *Facelis*
8. Cypselas conspicuously rostrate....3. *Chevreulia*
- Cypselas not rostrate....9
9. Pappus of bristles free at base....10
- Pappus of basally connate bristles....5. *Gamochaeta*
10. Capitula narrowly cylindrical, few-flowered (3-8 marginal florets and 1-4 central florets) ....1. *Achyrocline*
- Capitula campanulate, many flowered (more than 20)....6. *Gnaphalium*

1. **ACHYROCLINE** DC., 3 species.

1. Stems winged....1. *A. alata*
- Stems wingless....2
2. Leaves linear, 3.5-5 (-6) x 0.15-0.4 (-0.5) cm....3. *A. satureioides*
- Leaves linear-lanceolate, 5-10 x 0.4- 0.8 cm....2. *A. flaccida*

1. **Achyrocline alata** (Kunth) DC.
Syn.: *Achyrocline argentina* O. Hoffm. - *A. alata* var. *vauthieriana* (DC.) Baker - *A. flavescens* Griseb. - *A. vauthieriana* DC. - *Gnaphalium alatum* Kunth
Iconography: Giangualani: 557, fig. 2. 1976.- Cabrera: 269, fig. 115 A-D. 1978.- Freire: 12, fig. 1 A-O. 1998.
Vernacular: "Marcela brasilera", "yatehí caá".
Habit: Subshrub.
Flowering period: December-March.
Status: Native.
Distribution: CH (1º de Mayo).
Habitat: Low, wet and marshy soils (ORI).
Uses: Unknown.
Specimen Examined: CH (Schulz 19052, BAB).

2. **Achyrocline flaccida** (Weinm.) DC.
Syn.: *Achyrocline citrina* Griseb. - *Gnaphalium flaccidum* Weinm.
Iconography: Cabrera: 273, fig. 117 A-D. 1978.- Freire: 15, fig. 2 A-O. 1998.
Vernacular: "Falso yatei-caá", "marcela", "m. macho", "vira-vira".
Habit: Subshrub.
Flowering period: February-April.
Status: Native.
Distribution: CH (San Fernando), FO: Formosa (Formosa).
Habitat: Margins of woods, fertile soils (ORI).
Uses: Antispasmodic, antihelmintic, febrifuge, tonic (Freire & Urtubey, 2000c).
Specimens Examined: CH (Meyer 188, SI), FOR (Jörgensen 3238, SI).

3. **Achyrocline satureioides** (Lam.) DC.
Syn.: *Achyrocline vargasiana* DC. - *Gnaphalium satureioides* Lam.
Iconography: Giangualani: 564, fig. 6. 1976.- Freire: 17, fig. 3 A-M. 1998.
Vernacular: "Alquitrán", "marcela", "m. del campo", "m. hembra", "marcelita", "pag(a)rá lauró", "virá-virá guazú", "yataí ca'á", "yateí ca'á".
Habit: Subshrub.
Flowering period: January-April.
Status: Native.
Distribution: CH (1º de Mayo, Sgt. Cabral), COR (Empedrado).
Habitat: Dry, high and sunny soils. Also over rocks and road borders (ORI).
Uses: Indigestion, stomachache, medicinal, edible, digestive, antiespasmodic, bitter tonic (Freire & Urtubey, 2000c).

Specimens Examined: CH (Múlgura & Deginani 953, BAB), COR (Pedersen 4830, LP).

2. **BERROA** Beauverd, 1 species.

1. **Berroa gnaphalioides** (Less.) Beauverd
Syn.: *Gnaphalium gnaphalioides* (Less.) Kuntze - *Lucilia argentea* Hook. & Arn. - *L. gnaphalioides* Less.
Iconography: Beauverd: 210, fig. 3. 1913.- Cabrera: 158, fig. 41. 1963.- Cabrera: 309, fig. 178 a-g. 1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: January-March.
Status: Native.
Distribution: COR (Capital), SE (Ojo de Agua).
Habitat: Fertile uncultivated soils (OCC, ORI).
Uses: Unknown.
Specimens Examined: COR (Alboff s.n., LP), SE (Argañaraz 523, LP).

3. **CHEVREULIA** Cass., 2 species.

1. Leaves opposite and spread, lanceolate, apically acuminate.....1 *Ch. acuminata*
- Leaves rosulate, spatulate, apically mucronate.....2. *Ch. sarmentosa*

1. **Chevreulia acuminata** Less.
Syn.: *Chevreulia filiformis* Hook. & Arn. - *C. longipes* Wedd.
Iconography: Cabrera: 267, fig. 114 H-J. 1978.- Freire: 23, fig. 5 A-N. 1998.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: November, December.
Status: Native.
Distribution: CH (1° de Mayo).
Habitat: Dry lands (ORI).
Uses: Unknown.
Specimen Examined: CH (Schulz 141, LP).

2. **Chevreulia sarmentosa** (Pers.) S. F. Blake
Syn.: *Chevreulia stolonifera* Cass. - *C. thouarsii* J. Rémy - *Gnaphalium calycinum* Poir. - *Leria cespitosa* Spreng. - *Tussilago sarmentosa* Pers. - *Xeranthemum cespitosum* Du Petit-Thouars
Iconography: Cabrera: 105, fig. 93. 1971b.- Cabrera: 267, fig. 114 A-G. 1978.
Vernacular: "Jate´i ka'a hata".
Habit: Perennial herb.
Flowering period: October-December.
Status: Native.
Distribution: COR (Empedrado).
Habitat: Pristine prairies, steppes (ORI).
Uses: Unknown.
Specimen Examined: COR (Pedersen 3968, LP).

4. **FACELIS** (Lam.) Sch. Bip., 1 species.

1. **Facelis retusa** (Lam.) Sch. Bip. ssp. **retusa**
Syn.: *Facelis apiculata* Cass. - *Gnaphalium retusum* Lam. - *Helichrysum retusum* Spreng. - *Leptalea apiculata* D. Don ex Hook. & Arn.
Iconography: Cabrera: 152, fig. 38 A-G. 1963.- Cabrera: 309, fig. 178 h-n. 1974.- S. E. Freire: 27, fig. 7 A-Q. 1998.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: November-March.
Status: Native.
Distribution: CH (1° de Mayo), COR (San Cosme), SF (Grl. Obligado).
Habitat: Humid and sandy, or rocky soils (ORI).
Uses: To prepare tea (Martínez Crovetto, 1968).
Specimens Examined: CH (Schulz 10043, BAB), COR (Harrola 772, SI), SF (Burkart 5734, SI).

5.**GAMOCHAETA** Wedd., 6 species.

1. Internal phyllaries apically acute or acuminate.....2
-. Internal phyllaries obtuse.....3

2 Leaves sessile spatulate, discolorous, green and glabrate with glandular trichomes above and densely lanate beneath.....5.*G. platensis*
- Leaves linear, concolorous, densely lanate on both surfaces, not glandular above .....3.*G. filaginea*
3. Leaves strongly discolorous, glabrous or glabrate above and densely white-tomentose beneath.....2.*G. coarctata*
- Leaves concolorous, lanate on both surfaces..... 4
4. Upper leaves linear.....1.*G. calviceps*
- Lower leaves obovate or linear-obovate.....5
5. Leaves obovate, apically rounded, basally attenuate into a pseudopetiole .....4. *G. pensylvanica*
- Leaves linear-obovate, apically acute, basally attenuate.....6.*G. subfalcata*

1. **Gamochaeta calviceps** (Fernald) Cabrera
Syn.: *Gnaphalium calviceps* Fernald
Iconography: Cabrera: 325, fig.187j-q. 1974.
Vernacular: "Vira-vira".
Habit: Perennial herb.
Flowering period: July –October.
Status: Native.
Distribution: CH (12 de Octubre, 1° de Mayo, Cmte. Fernández),COR (Bella Vista, Capital, Empedrado,) FO (Laish, Patiño, Pilcomayo), SE (Choya).
Habitat: Disturbed areas as a weed(ORI).
Uses: Smallpox, measles and chicken pox, for washing wound and injuries (Freire & Urtubey, 2000c).
Specimens Examined: CH (Schulz 251, CTES), COR (Schinini & Miranda 9593, LP), FO (Digiacomo 319 ,CTES), SE (Pérez Moreau et al. 4677, BAB).

2. **Gamochaeta coarctata** (Willd.) Kerguélen
Syn.: *Gamochaeta spicata* (Lam.) Cabrera - *Gnaphalium coarctatum* Willd. - *G. purpureum* L. var. *spicatum* (Lam.) Baker - *G. spicatum* Lam.
Iconography: Cabrera: 306, fig.127 F-H. 1978.
Vernacular: "Perkán-perkán", "vira-vira".
Habit: Perennial herb.
Flowering period: June-July, September-November.
Status: Native.
Distribution: CH (Bermejo,1° de Mayo, Resistencia, San Fernando), COR (Bella Vista, Capital,Goya, San Roque), SF (Gral. Obligado, La Colonias), SE (Gral. Belgrano, Choya, Ojo de Agua).
Habitat: Widespread, in high elevation grasslands, steppes, river coasts, gardens (ORI).
Uses: Smallpox, measles and chicken pox, for washing wound and injuries, antiphlogistic, vulnerary (Freire & Urtubey, 2000c).
Specimens Examined: CH (Schulz 2742, CTES), COR (Boelcke 1588, LP), SF (Meyer 3247, LP), SE (Ragonese & Castiglioni 7807, BAB).

3. **Gamochaeta filaginea** (DC.) Cabrera
Syn.: *Gnaphalium filagineum* DC.
Iconography: Cabrera: 322, fig. 185. 1974.
Vernacular: "Vira-vira", "perkán-perkán".
Habit: Perennial herb.
Flowering period: September-October.
Status: Native.
Distribution: CH (1° de Mayo), COR (San Cosme), FO (Laishi), SE (Guasayán, Ojo de Agua).
Habitat: Grassy steppes, dunes, grassy river banks (ORI).
Uses: Smallpox, measles, chicken pox, for washing wound and injuries (Freire & Urtubey, 2000c).
Specimens Examined: CH (Schulz 10007, CTES), FO (Boelcke 13299 pp BAA), COR (Krapovickas & Cristóbal 23747, LP), SE (Sánchez 902, BAB).

4. **Gamochaeta pensylvanica** (Willd.) Cabrera
Syn.: *Gnaphalium pensylvanicum* Willd. - *G. peregrinum* Fernald - *G. purpureum* L. var. *spathulatum* (Lam.) Baker - *G. spathulatum* Lam.
Iconography: Cabrera:176, fig.48.1963.- Cabrera: 326, fig.188 a-i. 1974.- Cabrera: 307, fig.128 N-Q. 1978.
Vernacular: "Paletaria", "vira-vira".
Habit: Perennial herb.
Flowering period: June-December.
Status: Native.
Distribution: CH (Cmte. Fernández,1° de Mayo, San Fernando), COR (Capital, Bella Vista, Empedrado), FO (Capital, Pilcomayo, Pilagás, Piraré), SF (San Cristóbal), SE (La Banda, Quebrachos).
Habitat: Prairies, forests, disturbed areas, on sandy soils (ORI).

Uses: Smallpox, measles and chicken pox, for washing wound and injuries (Freire & Urtubey, 2000c).
Specimens Examined: CH (Schulz 11171, CTES), COR (Schinini 5212, LP), FO (Vázquez 77, CTES), SF(Ragonese 324, LP), SE (Pérez Moreau et al. 4811, BAB).

5. **Gamochaeta platensis** (Cabrera) Cabrera
Syn.: *Gnaphalium platense* Cabrera
Iconography: Cabrera:168, fig.45. 1941a.- Cabrera:169, fig. 4. 1963.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: August-September.
Status: Endemic.
Distribution: CH (1° de Mayo), FO (Laishi).
Habitat: Fertile and humid soils (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 81pp, LP), FO (Schulz 81pp, LP).

6. **Gamochaeta subfalcata** (Cabrera) Cabrera
Syn.:*Gnaphalium subfalcatum* Cabrera
Iconography: Cabrera: 306, fig.127I-L. 1978.
Vernacular: "Vira-vira" .
Habit: Perennial herb.
Flowering period: September-October.
Status: Native.
Distribution: CH (Donovan, 1° de Mayo), COR (Empedrado), FO (Bermejo, Pilcomayo), SF (9 de Julio), SE (Gral. Belgrano, La Banda, Choya, Gral. Taboada).
Habitat: Steppes, salty, sandy, or wet soils, disturbed areas, near train-tracks (ORI).
Uses:Unknown.
Specimens Examined: CH (Schinini 22658, CTES), COR (Pedersen 6608, LP), FO (Correa et al. 7681, BAB), SF (Ragonese 2402 , LP), SE (Elisetch & Cano 14, BAB).

6. **GNAPHALIUM** L., 1 species.

1. **Gnaphalium gaudichaudianum** DC.
Syn.: *Gnaphalium mendocinum* Phil.
Iconography: Cabrera: 316, fig. 182. 1974.- Cabrera: 277, fig. 118 H-L. 1978.- Freire: 46, fig. 15 A-Q. 1998.
Vernacular: "Caá-guazú", "marcela", "marcelita", "vira-vira´i".
Habit: Annual herb.
Flowering period: November-March.
Status: Native.
Distribution: CH (Bermejo, 1° de Mayo, Mayor Fontana, Sgt. Cabral), CO (Colón), COR (Capital), FO (Pilagás), TU (Cruz Alta, Leales).
Habitat: Fertile, sandy and cultivated soils, dells and palm trees woods (OCC, ORI).
Uses: Medicinal, digestive, hepatic (Freire & Urtubey, 2000c).
Specimens Examined: CH (Jörgensen 2048, SI), CO (Bruch s.n., LP), COR (Burkart 6869, SI), FO (Rojas 8883, BAB, LP), TU (Venturi 1596, SI).

7. **MICROPSIS** DC., 1 species.

1. **Micropsis dasycarpa** (Griseb.) Beauverd
Syn.: *Filago dasycarpa* Griseb.
Iconography: Cabrera: 288, fig. 162 j-s. 1974.- Freire: 54, fig. 18 A-M. 1998.
Vernacular: "Chi´i", "ka´a chi´i".
Habit: Annual herb .
Flowering period: September-November, January-March.
Status: Native.
Distribution: CH (1° de Mayo), COR (Capital), FO (Unknown), SF (Gral. Obligado).
Habitat: Fertile and wet soils (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 10009, BAB), COR (Burkart 6850, SI), FOR (Kermes 329, BAB), SF (Burkart 5738, SI).

8. **PLUCHEA** Cass. 2 species.

1. Involucre campanulate. Disc florets 3-5 (-8).....1. *P. microcephala*
- Involucre hemispheric. Disc florets (25-) 30-50.....2. *P. sagittalis*

1. **Pluchea microcephala** R. K. Godfrey
Iconography: Ariza Spinar: 299, fig. 1. 1969.- Cabrera: 257., fig. 110 A-F. 1978.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: January- March.

Status: Native.
Distribution: CA (La Paz), CH (Mayor Fontana), CO (Cruz del Eje), FO (Patiño), SF (9 de Julio), SE (Banda).
Habitat: Wet soils (OCC, ORI).
Uses: Unknown.
Specimens Examined: CA (Burkart 20373, LP), CH (Schulz 6724, BAB), CO (Hunziker 11671, SI), FO (Schinini & Pire 24191, BA), SF (Stufella 62, SI), SE (Bayón 393, LPAG).

2. **Pluchea sagittalis** (Lam.) Cabrera
Syn.: *Conyza sagittalis* Lam. - *Epaltes brasiliensis* DC. - *Gnaphalium suaveolens* Vell. - *Pluchea quitoc* DC. - *P. suaveolens* (Vell.) Kuntze
Iconography: Cabrera: 308, fig. 177. 1974.- Cabrera: 257, fig. 110. 1978.- Freire: 56, fig. 19 A-O. 1998.
Vernacular: "Kitó", "lucera", "nasherek ltaá", "quitoco", "uashitó lok/o/lák", "uoué", "yerba del lucero"
Habit: Perennial herb.
Flowering period: December- May.
Status: Native.
Distribution: CH (Gral. Güemes, Mayor Fontana, 1º de Mayo, San Fernando), CO (Río Primero, Colón), COR (Capital, Empedrado, Esquina, Saladas, San Cosme), FO (Pilagás, Pirané, Pilcomayo), SF (Gral. Obligado, 9 de Julio, San Cristóbal), SE (Copo, Río Hondo).
Habitat: Wet soils and ponds (OCC, ORI).
Uses: Medicinal, bitter tonic, digestive, carminative, antihysteric, febrifuge, diuretic, antiblenorrhea, pectoral, pimples (Freire & Urtubey, 1999a), headaches, carminative (Bandoni et al., 1976).
Specimens Examined: CH (Piccinini & Hilfer 4180, BAB), CO (Hunziker 1154, LP), COR (Quarín et al. 2202, SI), FO (Rojas 9040, LP), SF (Venturi 79, SI), SE (Bayón 411, LPAG).

9. **PTEROCAULON** Elliot, 9 species.

1. Capitula in dense glomerules....2
- Capitula in long, more or less spikes....3
2. Leaf blades linear or linear-oblong 0.3-1 cm wide....2. *P. angustifolium*
- Leaves ovate-elliptic 1.8-4 cm wide....8. *P. rugosum*
3. Plants only with glandular trichomes....6. *P. polystachyum*
- Plants woolly or tomentose with other types of trichomes....4
4. Capitula in panicles of terminal spikes....3. *P. balansae*
- Capitula in solitary terminal spikes, sometimes branched at base....5
5. Capitula in lax spikes....6
- Capitula in dense spikes....7
6. Spikes not or slightly branched. Lower leaves 0.4-1.2(-1.8) cm wide....9. *P. virgatum*
- Spikes branched at base. Lower leaves 1.5-3 cm wide....4. *P. cordobense*
7. Spikes ovoid, violet-tinged....7. *P. purpurascens*
- Spikes cylindrical or ellipsoid, not violet-tinged....8
8. Leaf margins entire and revolute. Lower leaf blades oblanceolate, 1-2 cm wide. Staminate flowers 2-5....5. *P. lorentzii*
- Leaf margins minutely serrate, not revolute. Lower leaf blades obovate-elliptic, 1.8-4 cm wide. Upper leaves ovate-oblong. Staminate flowers 1-3....1. *P. alopecuroides*

1. **Pterocaulon alopecuroides** (Lam.) DC.
Syn.: *Baccharis erioptera* Benth. - *Chlaenobolus alopecuroides* (Lam.) Cass. - *Conyza alopecuroides* Lam. - *Pterocaulon alopecuroides* var. *glabrescens* Chodat - *P. alopecuroides* var. *polystachyum* DC. - *P. interruptum* DC. - *P. interruptum* var. *monostachyum* DC. - *P. interruptum* var. *polystachyum* DC. - *P. latifolium* Kuntze - *P. virgatum* f. *alopecuroides* (Lam.) Arechav. - *P. virgatum* f. *subcorymbosa* Arechav.
Iconography: Cabrera & Ragonese: 207, fig. 6. 1978.- Cabrera: 251, fig. 107 G-H. 1978.- Freire: 61, fig. 20 A-P. 1998.
Vernacular: "Caraí casó", "c. tuyá casó", "noom (a)rá etaá", "sup toptobelité", "toro ka'a", "tuyá casó".
Habit: Perennial herb.
Flowering period: December- March.
Status: Native.
Distribution: CH (Cmte. Fernández, Mayor Fontana, 1º de Mayo), COR (Lavalle), FO (Pilcomayo), SF (Gral. Obligado, 9 de Julio), SE (Copo, Silípica).

Habitat: High and fertile lands (OCC, ORI, SAB).
Uses: Pimples, wounds, hepatic, cicatrizant, headache, astringent, diuretic, antirheumatic, antiarthritic (Freire & Urtubey, 1999a), febrifugal (Cabrera & Ragonese, 1978).
Specimens Examined: CH (Rothkugel 63, SI), COR (de Donnet 2024, SI), FOR (Morel 4605, LP), SF (Job 1019, LP), SE (Molina & Hilfer 3119, BAB).

2. **Pterocaulon angustifolium** DC.
Iconography: Cabrera: 292, fig. 164. 1974.- Cabrera & Ragonese: 212, fig. 7. 1978.- Freire: 63, fig. 21 A-Q. 1998.
Vernacular: "Caraí casó", "c. tuyá casó", "marcela blanca", "tuyá casó".
Habit: Perennial herb.
Flowering period: December-March.
Status: Native.
Distribution: COR (San Roque).
Habitat: Sandy soils (ORI).
Uses: Pimples, stings, wounds, hepatic (Freire & Urtubey, 1999a).
Specimen Examined: COR (Pedersen 5834, LP).

3. **Pterocaulon balansae** Chodat
Syn.: *Pterocaulon interruptum* auct. non DC. - *P. paniculatum* Arechav. - *P. polystachyum* DC. var. *tomentosa* Arechav. - *P. virgatum* (L.) DC. f. *subpaniculata* Arechav.
Iconography: Cabrera & Ragonese: 217, fig. 9. 1978.- Freire: 66, fig. 22 A-P. 1998.
Vernacular: "Kitó".
Habit: Perennial herb.
Flowering period: February, March.
Status: Native.
Distribution: COR (San Roque).
Habitat: Wet and sandy soils (ORI).
Uses: Unknown.
Specimen Examined: COR (Pedersen 5846, LP).

4. **Pterocaulon cordobense** Kuntze
Iconography: Cabrera: 299, fig. 171 a-j. 1974.- Freire: 68, fig. 23 A-R. 1998.
Vernacular: Unknown.
Habit: Perennial herbs.
Flowering period: December, March.
Status: Native.
Distribution: CH (1º de Mayo, San Fernando), COR (Empedrado), FO (Patiño), SF (Gral. Obligado).
Habitat: Fertile and clayish soils (ORI, SAB).
Uses: Antibiotic (Towers et al., 1977).
Specimens Examined: CH (Schulz 10352, BAB), COR (Pedersen 10076, LP), FO (Krapovickas 1250, LP), SF (Ragonese 3128, LP).

5. **Pterocaulon lorentzii** Malme
Syn.: *Pterocaulon malmeanum* Chodat - *P. virgatum* (L.) DC. f. *angustifolia* Arechav. - *Pterocaulon virgatum* (L.) DC. f. *spicata* Arechav.
Iconography: Cabrera: 296, fig. 168. 1974.- Cabrera & Ragonese: 232, fig. 14. 1978.- Freire: 72, fig. 25 A-Q. 1998.
Vernacular: "Tuyá canilla".
Habit: Perennial herb.
Flowering period: December- April.
Status: Native.
Distribution: CH (1º de Mayo), COR (Bella Vista, Capital, Empedrado, Goya, San Cosme), SF (Gral. Obligado), SE (Jiménez), TU (Leales).
Habitat: Margins of rivers (OCC, ORI).
Uses: Cicatrization, pimples, stings, wounds, hepatic (Freire & Urtubey, 1999a).
Specimens Examined: CH (Schulz 162, LP), COR (Eskuche 2342-34, SI), SF (Job 970, LP), SE (Venturi 39850, BAB), TU (Venturi 739, SI).

6. **Pterocaulon polystachyum** DC.
Iconography: Cabrera: 294, fig. 166. 1974.- Cabrera & Ragonese: 235, fig. 15. 1978.- Freire: 75, fig. 26 A-Q. 1998.
Vernacular: "Sombra de toro", "toro caá", "yerba del toro".
Habit: Perennial herb.
Flowering period: October-March.
Status: Native.
Distribution: CH (1º de Mayo), COR (Capital, Empedrado, Saladas), SF (Vera).
Habitat: Fertile soils (ORI, SAB).
Uses: Sunstroke (Freire, Urtubey, 1999a), aromatic (Zardini, 1984, Martínez Crovetto, 1981), to clean wounds (Desmarchelier & Ciccia, 1998).
Specimens Examined: CH (Schulz 5, BAB), COR (Pedersen 5492, LP), SF (Tedone 5075, LP).

7. **Pterocaulon purpurascens** Malme
Iconography: Cabrera: 295, fig. 167. 1974.- Cabrera: 251, fig. 107 A-F. 1978.- Cabrera & Ragonese: 229, fig. 13. 1978.- Freire: 77, fig. 27 A-S. 1998.
Vernacular: "Moo maaning awa", "tuyá casó".
Habit: Perennial herb.
Flowering period: October-April.

Status: Native
Distribution: CH (Bermejo, Mayor Fontana, 1° de Mayo, San Fernando, Sgt. Cabral), CO (Río Seco), COR (Bella Vista), FO (Formosa, Patiño, Pirané), SF (Gral. Obligado, 9 de Julio, San Cristóbal, Vera), TU (Leales).
Habitat: Clayish soils and marshes (OCC, ORI, SAB).
Uses: Toothaches (Arenas, 1983), insecticide, insect stings and bites, digestive, emmenagogue (Nadinic et al., 1985), digestive, antiophidic (Desmarchelier & Ciccia, 1998).
Specimens Examined: CH (Delucchi 1887, LP), CO (Sayago 1731, LP), COR (Tressens et al. 705, LP), FO (Arenas 2401, SI), SF (Venturi 97, LP), TU (Venturi 663, SI).

8. **Pterocaulon rugosum** (Vahl) Malme
Syn.: *Chlaenobolus rugosus* (Vahl) Cass. - *Conyza rugosa* Vahl - *Pterocaulon alopecuroides* (Lam.) DC. var. *mollis* Chodat - *P. spicatum* DC. var. *brachystachyum* DC.
Iconography: Cabrera: 293, fig. 165. 1974.- Cabrera & Ragonese: 214, fig. 8 A-G. 1978.- Freire: 80, fig.28 A-O. 1998.
Vernacular: "Caraí-casó", "caraí tuyá casó", "tuyá casó".
Habit: Perennial herbs.
Flowering period: December-May.
Status: Native.
Distribution: COR (Empedrado, Saladas).
Habitat: Sandy soils (ORI).
Uses: Hepatic, pimples, purulent wounds and stings, insect bites (Freire & Urtubey, 1999a).
Specimen Examined: COR (Pedersen 5502, LP).

9. **Pterocaulon virgatum** (L.) DC.
Syn.: *Chlaenobolus virgatus* (L.) Cass. - *Conyza virgata* (L.) L.. - *Gnaphalium virgatum* L - *Pterocaulon pilcomayense* Malme - *P. pompilianum* Standl. & Williams - *P. subspicatum* Chodat - *P. subvirgatum* Malme - *P. virgatum* (L.) DC. f. *subvirgata* (Malme) Arechav.
Iconography: Cabrera (sub nom. *Pterocaulon subvirgatum*): 300, fig. 172. 1974.- Cabrera & Ragonese: 223, fig. 11. 1978.- Cabrera: 249, fig. 106. 1978.- Freire: 82, fig. 29 A-R. 1998.
Vernacular: "Caraí casó", "c. tuyá", "casó", "tuyá casó", "yaguaretí-caá".
Habit: Perennial herb.
Flowering period: December-March.
Status: Native.
Distribution: CH (Mayor Fontana, 1° de Mayo, San Fernando), COR (Capital, Goya, Empedrado), FO (Patiño, Pilcomayo, Pirané), SA (Anta), SE (Copo, Pellegrini).
Habitat: Wet and clayish soils (OCC, ORI, SAB).
Uses: Diuretic, wounds, stings infections, pimples, emmenagogue, hepatic (Freire & Urtubey, 1999a).
Specimens Examined: CH (Schulz 3, BAB), COR (Schinini & Martínez 12896, SI), FO (Krapovickas 1318, LP, SI), SA (Saravia Toledo 1165, SI), SE (Fortunato 6369, BAB).

10. **STENACHAENIUM** Benth., 2 species.

1. Plants loose-hirsute. Capitula solitary.....1. *S. campestre*
- Plants dense-hirsute. Capitula arranged in terminal corymbs.....2. *S. riedelii*

1. **Stenachaenium campestre** Baker
Iconography: Cabrera: 305, fig. 175 a-g. 1974.- Freire: 86, fig. 30 A-M. 1998.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: October-December.
Status: Native.
Distribution: COR (Empedrado).
Habitat: "Campos", savannas, in high, rocky and lateritic soils (ORI).
Uses: Unknown.
Specimen Examined: COR (Pedersen 3014, LP).

2. **Stenachaenium riedelii** Baker
Iconography: Cabrera: 306, fig. 176. 1974.- Freire: 87, fig. 31 A-L. 1998.
Vernacular: "Lengua de buey".
Habit: Perennial herb.
Flowering period: November, December.
Status: Native.
Distribution: CH (Unknown), SF (Gral. Obligado).
Habitat: In high, dry and rocky soils (ORI).
Uses: Stomachal, to dry the appendix (Freire & Urtubey, 1999a).

Specimen Examined: CH (Jörgensen 2747, SI), SF (Venturi 319, SI).

11. **TESSARIA** Ruiz & Pav. 3 species, 1 variety.

1. Plants only with glandular trichomes, resinous.....1. *T. dodoneifolia*
- Plants with non-glandular trichomes, not resinous.....2
2. Plants velvet pubescent.....2. *T. fastigiata*
- Plants canescent pubescent.....3. *T. integrifolia*

1. **Tessaria dodoneifolia** (Hook. & Arn.) Cabrera
Syn.: *Conyza straminea* Chodat - *Eupatorium dodoneifolium* Hook. & Arn., hom. illeg. - *Pluchea dodoneifolia* (Hook. & Arn.) H. Rob. & Cuatrec.- *Tessaria straminea* (Chodat) Hassl. - *T. viscosa* Lillo
Iconography: Cabrera: 302, fig. 173. 1974.- Cabrera: 253, fig. 108 G-J. 1978.- Freire: 92, fig. 33 A-C, E-X. 1998.
Vernacular: "Chilca", "c. dulce", "c. negra", "pi is (l) é","pi is (l) ét".
Habit: Shrub.
Flowering period: November-March.
Status: Native.
Distribution: CH (Bermejo, Gral. Güemes, Sgt. Cabral, Mayor Fontana, 1° de Mayo, San Fernando), COR (Bella Vista), FO (Formosa, Patiño, Pilcomayo), SE (Banda, Capital, Figueroa, Loreto, Matará, Río Hondo, Robles).
Habitat: Near marshes and streams, in clayish and salty soils (OCC, ORI).
Uses: Abortifacient (Freire & Urtubey, 2000c).
Specimens Examined: CH (Molina & Sánchez 2365, BAB), COR (Schinini & Martínez Crovetto 12873, SI), FO (Jörgensen 2013, LP), SE (Bayón 398, LPAG).

2. **Tessaria fastigiata** (Griseb.) Cabrera
Syn.: *Pluchea fastigiata* Griseb.
Iconography: Cabrera: 255, fig. 109 A-F 1978.
Vernacular: "Libi-libi"
Habit: Subshrub.
Flowering period: October-December.
Status: Native.
Distribution: SA (Anta, Rivadavia).
Habitat: In wet soils (OCC).
Uses: Unknown.
Specimen Examined: SA (Saravia Toledo 1411, SI).

3. **Tessaria integrifolia** Ruiz & Pav.

1. Central florets 3-6.....var. *ambigua*
- Central floret 1.....var. *integrifolia*

a) var. **ambigua** (DC.) S. E. Freire
Syn.: *Tessaria absinthiodes* (Hook. & Arn.) DC. var. *ambigua* (DC.) R. E. Fr. - *T. ambigua* DC. - *T. integrifolia* Ruiz & Pav. var. *obtusifolia* Hassl. - *T. integrifolia* Ruiz & Pav. ssp. *polyandra* Cabrera
Iconography: Ariza Espinar (sub nom. *Tessaria ambigua*): 57, fig. 1. 1979.
Vernacular: "Chilca rosada","palo negro", "suncho".
Habit: Shrub.
Flowering period: February-May, July-December.
Status: Native.
Distribution: CH (Bermejo, Libertador Gral. San Martín), FO (Patiño, Pilagás), SA (Anta, Rivadavia), SE (Capital, Gral. Taboada, Pellegrini, Robles).
Habitat: Similar to var. *integrifolia* (OCC, ORI).
Uses: Similar to var. *integrifolia*.
Specimens Examined: CH (Schulz 3209, BAB, LP), FO (Bordón 149, BAB), SA (Saravia Toledo 1854, SI), SE (Bayón 412, LPAG).

b) var. **integrifolia**
Syn.: *Gynheteria incana* Spreng. - *Tessaria dentata* Ruiz & Pav. - *T. legitima* DC.
Iconography: Cabrera: 303, fig. 174. 1974.- Cabrera: 253, fig.108 A-F. 1978.- Freire: 98, fig. 35. 1998.
Vernacular: "Aliso", "a. de río", "bobo", "mbui bé", "pájaro bobo", "pekuj", "salák", "suncho".
Habit: Tree or small tree.
Flowering period: December-March.

Status: Native.
Distribution: CH (Bermejo, 1º de Mayo, San Fernando), FO (Matacos), SA (Anta), SE (Gral. Taboada).
Habitat: On margins of streams, rivers, along roads (OCC, ORI).
Uses: Medicinal, pectoral, etc. (Freire & Urtubey, 2000c), to construct huts, cabins and fences, to make paper (Zardini, 1984).
Specimens Examined: CH (Schulz 3392, LP), FO (Maranta 67, SI), SA (Saravia Toledo 1841, SI), SE (Soriano 551, LP).

8. Tribe **LACTUCEAE,** 5 genera, 10 species.

1. Pappus of plumose bristles. Receptacle scaly.....1. *Hypochaeris*
- Pappus of simple bristles. Receptacle without scales.....2
2. Cypselas tuberculate.....5. *Taraxacum*
- Cypselas not tuberculate.....3
3. Cypselas fusiform.....3. *Picrosia*
- Cypselas compressed.....4
4. Cypselas longly rostrate.....2. *Lactuca*
- Cypselas erostrate.....4. *Sonchus*

1. **HYPOCHAERIS** L., 4 species.

1. Involucre narrowly cylindric.....2
- Involucre campanulate.....3
2. Corollas yellow, longer than involucre.....4. *H. microcephala*
- Corollas white, as long as the involucre.....2. *H. albiflora*
3. Corollas white, longer than involucre.....1. *H. alba*
- Corollas yellow, as long as the involucre.....3. *H. chillensis*

1. **Hypochaeris alba** Cabrera
Iconography: Cabrera: 196, fig. 11. 1937.
Vernacular: Unknown.
Habitat: Perennial herb.
Flowering period: October-January.
Status: Native.
Distribution: COR (Bella Vista, Capital, Mburucuyá, San Cosme).
Habitat: Sandy lands, field, *Butia yatay* forest (ORI).
Uses: Unknown.
Specimens Examined: COR (Urtubey & Tremetsberger 156, LP).

2. **Hypochaeris albiflora** (Kuntze) C. F. Azevêdo-Gonçalves & N. I. Matzenbacher
Syn.: *Hypochaeris brasiliensis* var. *albiflora* Kuntze - *Hypochaeris microcephala* var. *albiflora* (Kuntze) Cabrera
Iconography: Cabrera: 682, fig. 289 C-D. 1978. Cabrera: 519, Fig. 310 J-J´. 1974.
Vernacular: "Achicoria del campo".
Habit: Perennial herb.
Flowering period: September-December.
Status: Native.
Distribution: CH (Capital, Gral. Güemes), COR (Bella Vista, Capital, Goya, Saladas, San Luis del Palmar), FO (Pilcomayo), S (Orán), SF (Gral. Obligado), SE (Ojo de Agua, Robles).
Habitat: Sparse underbrush, fields, orchards, near of rivers, moist "abra", "ñandubay" (*Prosopis algarobilla*), "espinallar" (*Acacia caven* var. *dehiscens*) woods (OCC, ORI).
Uses: Unknown.
Specimens Examined: CH (Urtubey & Tremetsberger 155, LP), COR (Urtubey & Tremetsberger 158, LP), F (Piccinini & Leguizamón 2630, BAB), S (Maldonado 872, LP), SF (Maldonado 1677, LP), SE (Maldonado 516, LP).

3. **Hypochaeris chillensis** (Kunth) Hieron.
Syn.: *Achyrophorus brasiliensis* (Less.) Sch.Bip. - *A. chilensis* Sch.Bip. - *Apargia chillensis* Kunth - *A. sagittatus* Phil. - *Hypochaeris brasiliensis* (Less.) Benth. & Hook. f. ex Griseb. var. *brasiliensis* - *H. brasiliensis* (Less.) Benth. & Hook. f. ex Griseb. var. *chacoensis* Hassl. - *H. brasiliensis* (Less.) Benth. & Hook. f. ex Griseb. var. *sulfurea* Kuntze - *H. brasiliensis* (Less.) Benth. & Hook. f. ex Griseb. var. *tweediei* (Hook. & Arn.) Baker - *H.*

tweediei (Hook. & Arn.) Cabrera - *Leontodon chilense* DC. - *Porcellites brasilienses* Less. (p.p.). - *Seriola brasiliensis* Less. - *S. brasiliensis* var. *hirsutula* Hook. & Arn. - *S. tweediei* Hook. & Arn.
Iconography: Cabrera: 682, fig. 289, A-B. 1978.
Vernacular: "Achicoria", "a. amarilla", "a. del campo", "cerraja".
Habit: Perennial herb.
Flowering period: All year, principally from October to December.
Status: Native.
Distribution: CH (1° de Mayo, Bermejo), COR (Capital), SE (Beltrán, Guasayán, Robles).
Habitat: Productive fields (OCC, ORI).
Uses: Edible roots (Cabrera 1978), purgative, excessive and painful menstruations relief, refreshment (Freire & Urtubey, 1999b).
Specimens Examined: CH (Schulz 148, BAB, LP), COR (Krapovickas 19828, LP), SE (Delucchi 2071, LP).

4. **Hypochaeris microcephala** (Sch.Bip.) Cabrera
Syn.: *Achyrophorus microcephalus* Sch. Bip. - *Hypochaeris brasiliensis* (Less.) Benth. & Hook. f. ex Griseb. var. *microcephala* (Sch. Bip.) Baker - *Seriola brasiliensis* Less. var. *parviflora* Hook. & Arn.
Iconography: Cabrera: 519, Fig. 310 A-I´. 1974.
Vernacular: "Achicoria", "a. del campo".
Habit: Perennial herb.
Flowering period: October to November.
Status: Native.
Distribution: CH (1° de Mayo), FO (Pilcomayo).
Habitat: Productive lands (ORI).
Uses: Excessive and painful menstruations relief, refreshment, purgative, contraceptive, whet one´s appetite (Freire & Urtubey, 1999b).
Specimens Examinate: CH (Schulz 1035, LP), F (Morel 6447, LP).

3. **PICROSIA** D. Don, 2 species.

1. Plants pink-reddish. Corollas lilac to pink. Cypselas apically attenuate.....1. *P. cabreriana*
-. Plants green. Corollas white. Cypselas rostrate.....2. *P. longifolia*

1. **Picrosia cabreriana** Schulz
Iconography: Schulz: 495, fig.1. 1944.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: December.
Status: Endemic.
Distribution: CH (1° de Mayo).
Habitat: Inundated places, dams, small lakes (ORI).
Uses: Unknown.
Specimens Examined: CH (Cabrera & Schulz 1040, LP).

2. **Picrosia longifolia** D. Don
Syn.: *Picrosia australis* Decaisne - *P. longifolia var. angustissima* Kuntze - *Prenanthes subdentata* Hook. - *Psilopogon albiflorus* Phil. - *Tragopogon fritillarioides* Less.
Iconography: Cabrera:425, fig. 141. 1963, 694, fig. 295.1978.
Vernacular: "Achicoria silvestre".
Habit: Perennial herb.
Flowering period: All year.
Status: Native.
Distribution: CH (Bermejo, 1° de Mayo, San Fernando, Tapenaga), CO (Colón), COR (Cosme, Empedrado), FO (Patiño, Pilcomayo, Pirané), S

2. **LACTUCA** L., 1 species.

1. **Lactuca serriola** L.
Syn.: *Lactuca scariola* L.
Iconography: Cabrera: 690, fig. 293. 1978.
Vernacular: "Lechuga salvaje", "l. silvestre", "lechuguilla".
Habit: Perennial herb.
Flowering period: November to March.
Status: Adventive.
Distribution: CH (9 de julio, San Fernando), CO (Colón).
Habitat: Fields, disturbed places, road banks (ORI).
Uses: Antimicrobic, sedative (Freire & Urtubey, 1999b), edibles (Garg & Sastry 1996, Viswanathan & Singh, 1996), oil for manufacturing soaps, varnishes, paints, refined oils are edible, medicinal (Viswanathan & Singh 1996),
Specimens Examined: CH (Schulz 262, LP), CORD (Giardelli 301, LP).
Obs.: Toxic for cattle (Freire et al., 2005).

(Orán), SE (Capital, La Banda, Robles), SF (Gral. Obligado), T (Cruz Alta).
Habitat: Marshland, moist places, sandy lands, river and road banks, canebrates and mounts (OCC, ORI).
Uses: Sudorific, refreshment (Freire & Urtubey, 1999b).
Specimens Examined: CH (Schulz 85, BAB, LP), CO (Giardelli 873, LP), COR (Quarín 1322, LP), F (Morel 3917, LP), S (Abiatti & Claps 297, LP), SF (Ragonese 3192, LP), SE (Argañarás 225, LP), T (Venturi 2574, LP).

4. **SONCHUS** L., 2 species.

1. Leaf margin dentate with spinulose teeth, auricles acute. Cypselas with more than 3 ribs, tranversal denticulate on and between the ribs, without margin winged.....1. *S. oleraceus*
- Margin leaf sinuate-dentate, auricles rounded. Cypselas 3-ribbed, smooth between the ribs, margins winged.....2. *S. asper*

1. **Sonchus asper** (L.) Hill
Syn.: *Sonchus oleraceus* L. var. *asper* L.
Iconography: Cabrera: 420, fig.139.1963, 692, fig. 294 G-J.1978.
Vernacular: "Cerraja".
Habit: Perennial herb.
Flowering period: September to December.
Status: Adventive.
Distribution: CH (San Fernando, 1° de Mayo), COR (Capital, Goya).
Habitat: Border of underbrush, field, stubble (ORI).
Uses: Provitaminic, medicinal (Freire & Urtubey, 1999a), edible (Garg & Sastry, 1996, Huang & Lung, 1996), forage (Huang & Lung, 1996).
Specimens Examined: CH (Schulz 80, LP), COR (Krapovickas & Cristóbal 25667, LP).

2. **Sonchus oleraceus** L.
Iconography: Cabrera: 629, fig. 294 A-F. 1978.
Vernacular: "Cerraja", "c. brava", "c. de las huertas", "c. espinosa", kiré pushpushlí, lechón", "nilgue", "nilhue", "nompé sanép", "sabaráik", "serraja", "toro ca´á".
Habit: Perennial herb.
Flowering period: January to November.
Status: Adventive.
Distribution: CH (9 de Julio, 1° de Mayo, Sgt. Cabral, San Fernando), FO (Bermejo, Pilcomayo), SE (Banda, Capital, Gral. Belgrano, Guasayán, Ojo de Agua).
Habitat: Ruderal, disturbed, sandy and cultivated places, gardens, gutter, meadowland, levelling (ORI).
Uses: Edible, medicinal, biliary secretion, hepatic diseases, convulsed, laxative, diuretic, renal diseases, cough (Freire & Urtubey, 1999a), forage (Vallès et al. 1996, Huang & Lung 1996).
Specimens Examined: CH (Schulz 79, LP), F (Piccinini & Leguizamón 2538, BAB), SE (Argañarás 27, LP).
Obs.: Toxic for cattle (Freire et al., 2005).

5. **TARAXACUM** G. H. Weber, 1 species.

1. **Taraxacum officinale** G. H. Weber ex F. H. Wigger
Syn.: *Leontodon taraxacum* L. - *L. vulgare* Lam. - *Taraxacum dens-leonis* Desf. - *T. subspathulatum* A. J. Richards - *T. vulgare* (Lam.) Schrank
Iconography: Cabrera: 417, fig. 138. 1963, 688, fig. 292. 1978.
Vernacular: "Amargón", "achicoria", "diente de león", "oitá", "oi´tá", "oitái", "radicha", "radicheta", "taraxaco".
Habit: Perennial herb.
Flowering period: July to March.
Status: Adventive.
Distribution: CH (Bermejo), SE (Aguirre).
Habitat: Grasses, humid and dark areas (ORI).
Uses: Edible (Cabrera 1939b); Emenagogue, provitaminic, icterus, instep diseases, antimicrobic, stimulating, febrifugal, biliary secretion, cough, eye inflammations, laxative, hepatic diseases, diuretic, depurative, analgesic, laxative, depurative (Freire & Urtubey, 1999b).
Specimens Examined: CH (Schulz 911, LP), SE (Delucchi et al. 2117, LP).
Obs.: Rhizomes are "chicory" and coffee substitutes, leaves and flowers are used to make "dandelion" wine, beer, diet drinks (Garg & Sastry, 1996); toxic for cattle

(Freire et al., 2005).

9. Tribe **MUTISIEAE**, 12 genera, 22 species (1 endemic), 3 varieties.

1. Axillary spines....1. *Barnadesia*
- Without axillary spines....2
2. Herbs acaulescent, with rosulate leaves and 1-headed scapes....3
- Trees, shrubs, subshrubs, or caulescent herbs....4
3. Cypselas rostrate. Marginal florets female, without staminodes....2. *Chaptalia*
- Cypselas truncate. Marginal florets female, with staminodes....11. *Trichocline*
4. Capitula with all tubular corollas....5
- Capitula with other types of corollas, all bilabiate, all ligulate, bilabiate and tubular, or bilabiate and ligulate....6
5. Leaves persistent. Corollas very deeply 5-lobed, lobes reaching 1/3 of the corolla....5. *Gochnatia*
- Leaves caducous. Corollas 5-lobed, lobes reaching less than 1/3 of the corolla....3. *Cyclolepis*
6. Receptacle paleate....9. *Jungia*
- Receptacle epaleate....7
7. Pappus bristles plumose....10. *Mutisia*
- Pappus bristles simple, denticulate, or barbellate....8
8. Capitula with all florets bilabiate....9
- Capitula with all florets ligulate, bilabiate and ligulate, or bilabiate and tubular....10
9. Herbs. Receptacle glabrous. Corollas white....6. *Holocheilus*
- Shrubs or subshrubs, rarely herbs. Receptacle pubescent. Corollas yellow, orange, or white....12. *Trixis*
10. Capitula few-flowered, florets 4-6....11
- Capitula more than 40-flowered....4. *Dinoseris*
11. Subshrubs. Capitula with 4-5 marginal, bilabiate florets, and 1 tubular central floret....5. *Hyalis*
- Trees or shrubs. Capitula with all florets ligulate, or some florets pseudobilabiate (external lip 4-toothed and one internal lip) or bilabiate....8. *Hyaloseris*

1. **BARNADESIA** Mutis in L.f., 1 species.

1. **Barnadesia odorata** Griseb.
Iconography: Urtubey: 99, fig. 24. 1999.
Vernacular: "Alfiler", "alfilerillo", "clavel", "c. de la puna", "clavelillo", "zunchu kisca".
Habit: Shrub or little tree.
Flowering period: February-November.
Status: Native.
Distribution: T (Burruyacú).
Habitat: Forest (OCC).
Uses: Unknown.
Specimen Examined: T (Peirano 58500, GH).
Obs: It is used as firewood (Urtubey 1999, op.cit.).

2. **CHAPTALIA** Vent., nom. cons., 4 species.

1. Leaves lyrate-pinnatifid, the distal lobe bigger than the lateral ones....2. *C. nutans*
- Leaves entire to runcinate....2
2. Scapes ebracteate....3
- Scapes bracteate....3. *C. runcinata*
3. Leaf margins retrorse-dentate, crenate, or sinuate. Roots reddish....4. *C. sinuata*
- Leaf margins entire or slightly denticulate. Roots grey-brownish....1. *C. integerrima*

1. **Chaptalia integerrima** (Vell.) Burkart
Syn.: *Chaptalia integrifolia* (Cass.) Baker, comb. illeg. - *C. microdonta* Greene - *Leria integrifolia* Cass. - *L. lutescens* Sch. Bip. - *L. nutans* (L.) DC. var. *integrifolia* (Cass.) Less. - *Tussilago integerrima* Vell.
Iconography: Burkart: 578, fig. 16. 1944.- Cabrera: 489, fig. 290L-Q. 1974.- Cabrera: 622, fig. 265A-H. 1978.

Vernacular: "Lengua de vaca", "pelosilla".
Habit: Perennial herb.
Flowering period: October-May.
Status: Native.
Distribution: CH (Cmte. Fernández, 12 de Octubre, 9 de Julio, 1° de Mayo, San Fernando, Sgt. Cabral), CO (Capital, Tulumba), COR (Bella Vista), SE (Brig. Ibarra, Ojo de Agua), SF (Gral. Obligado).
Habitat: Savannas (SAV), steppes, subtropical forests, rocky hills (OCC, ORI).
Uses: Medicinal (Zardini, 1984).
Specimens Examined: CH (Meyer 2304, LP), CO (Lutti 4806, LP), COR (Schinini & Cristóbal 9805, LP), SE (Molina & Hilfer 3308, BAB), SF (Covas & Ragonese 4349, LP).

2. **Chaptalia nutans** (L.) Pol.
Syn.: *Chaptalia ebracteata* (Kuntze) Schumann - *C. majuscula* Greene - *C. nutans* (L.) Hemsley, comb. superfl. - *C. subcordata* Greene - *Gerbera nutans* (L.) Sch. Bip. - *Leria lyrata* Cass. - *L. nutans* (L.) DC. - *Thyrsanthema nutans* (L.) Kuntze - *Tussilago lyrata* Pers. - *T. nutans* L. - *T. vaccina* Vell.
Iconography: Burkart: 566, fig. 12. 1944.- Cabrera: 484, fig. 287.1974.- Cabrera: 622, fig. 265J-O. 1978.
Vernacular: "Burro-caá", "cerraja", "peludilla", "pelusa".
Habit: Perennial herb.
Flowering period: Throughout the year.
Status: Native.
Distribution: CA (El Alto), CH (Alm. Brown, Bermejo, Mayor Fontana, Gral. Güemes, Presidencia de la Plaza, 1° de Mayo, San Martín, Sgt. Cabral), CO (Capital, Colón, Río Seco, Santa María), COR (Capital, Empedrado, San Cosme), FO (Formosa, Laishi, Patiño, Pilcomayo, Pirané), JU (Santa Bárbara), SE (Choya, Guasayán, Ojo de Agua), SF (Gral. Obligado, San Cristóbal).
Habitat: Humid places, rocky or modified soils, grassy prairies (OCC, ORI, SAV).
Uses: Antiseptic, antipyretic, anticatarrhal, diuretic, antiblenorragic, balsamic, ocular antiseptic (Freire & Urtubey, 2000c).
Specimens Examined: CA (Venturi 7066, SI), CH (Delucchi 1917, LP), COR (Schinini et al. 6841, LP), FO (Marchionni s.n., LP), JU (Cabrera 16311, LP), SE (Frenguelli 127, LP, SI), SF (Job 1257, LP).

3. **Chaptalia runcinata** Kunth
Syn.: *Gerbera bicolor* (Less.) Sch. Bip. - *Loxodon longipes* Cass. - *Oxydon bicolor* Less. - *Thyrsanthema runcinata* (Kunth) Kuntze - *Tussilago bicolor* Less.
Iconography: Burkart: 554, fig. 11. 1944.- Cabrera: 486, fig. 288I-O. 1974.
Vernacular: "Lengua de vaca".
Habit: Perennial herb.
Flowering period: March-October.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando, 25 de Mayo, COR (Capital, Empedrado), FO (Formosa), SF (Gral. Obligado).
Habitat: Humid, sandy, or grassy soils (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 38, LP), COR (Pedersen 3923, MO, US), FO (Jörgensen 3360, SI), SF (Meyer 2948, LP).

4. **Chaptalia sinuata** (Less.) Baker
Syn.: *Leria nutans* (L.) DC. var. *sinuata* Less. - *L. sinuata* (Less.) DC. - *Thyrsanthema sinuata* (Less.) Kuntze
Iconography: Burkart: 582, fig. 17. 1944.- Cabrera: 489, fig. 290A-K. 1974.
Vernacular: "Lengua de vaca", "peludilla", "yerba de San Juan".
Habit: Perennial herb.
Flowering period: October-May.
Status: Native.
Distribution: CH (Bermejo, Mayor Fontana, Libertador San Martín, 9 de Julio, 1° de Mayo, San Fernando, Tapenagá), CO (Río Seco), COR (Bella Vista, Capital), FO (Pilcomayo).
Habitat: In savannas, prairies, dunes, open places (OCC, ORI).
Uses: Medicinal, vulnerary (Freire & Urtubey, 2000c).
Specimens Examined: CH (Krapovickas 13047, LP, SI), CO (Neher 26, SI), COR (Pire et al. 392, LP), FO (Piccinini & Leguizamón 2525, BAB).

3. **CYCLOLEPIS** D. Don, 1 species.

1. **Cyclolepis genistoides** D. Don
Syn.: *Gochnatia genistoides* (D. Don) Hook. & Arn.
Iconography: Cabrera: 476, fig. 282. 1974.- Cabrera: 591, fig. 253. 1978.

Vernacular: "Matorro", "m. negro", "monte azul", "palo azul", "usillo", "vidriera".
Habit: Shrub.
Flowering period: August-January.
Status: Native.
Distribution: CH (Unknown), CO (Capital, Río Seco, Tulumba), FO (Patiño), SE (Gral. Belgrano, Ojo de Agua), SF (San Cristóbal).
Habitat: Salty soils (OCC, SAV).
Uses: The wood is used as hepatic protector (Zardini, 1984).
Specimens Examined: CH (Jörgensen s.n., BAB 9845), CO (Sayago 1734, LP), FO (Schulz 17097, BAB), SE (Elisetch & Cano 48, BAB), SF (Ragonese 2385, LP).

4. **DINOSERIS** Griseb., 1 species.

1. **Dinoseris salicifolia** Griseb.
Syn.: *Dinoseris salicifolia* Griseb. var. *normalis* Kuntze - *Hyaloseris salicifolia* (Griseb.) Hieron.
Iconography: Cabrera: 610, fig. 260. 1978.
Vernacular: Unknown.
Habit: Shrub or little tree.
Flowering period: February-September.
Status: Native.
Distribution: SE (Unknown).
Habitat: Stony grounds (OCC).
Uses: Unknown.
Specimen Examined: SE (Asp 159, SI).

5. **GOCHNATIA** Kunth, 1 species.

1. **Gochnatia argentina** (Cabrera) Cabrera
Syn.: *Moquinia argentina* Cabrera
Iconography: Cabrera: 94, fig. 20. 1971c.- Cabrera: 475, fig. 281. 1974.- Sancho: 80, fig. 8. 2000.
Vernacular: "Chilca", "salvia blanca".
Habit: Shrub.
Flowering period: November-February.
Status: Native.
Distribution: CH (Cmte. Fernández, 12 de Octubre, Mayor Fontana, Gral. Belgrano, Maipú, 9 de Julio, 25 de Mayo), FO (Pirané), SE (Loreto, Moreno), SF (9 de Julio, Gral. Obligado), TU (Cruz Alta, Leales).
Habitat: Margins of sclerophyllous forests, rocky slopes, river banks (OCC, ORI, SAV)
Uses: Medicinal (Zardini, 1984).
Specimens Examined: CH (Schulz 2645, LP), FO (Petetín & Molina 1036 1/2, BAB), SE (Rial 620, LP), SF (Feldman 170, LP).

6. **HOLOCHEILUS** Cass., 2 species.

1. Upper leaves conspicuous, linear-lanceolate, ovate, or oblong, capitula 30-40-flowered, arranged in lax pseudocorymbs.....1. *H. hieracioides*
- Upper leaves very reduced, linear, capitula 15-20-flowered, arranged in a panicle of lax pseudocorymbs .....2. *H. schulzii*

1. **Holocheilus hieracioides** (D. Don) Cabrera
Syn.: *Cleanthes hieracioides* D. Don - *C. hieracioides* D. Don var. *thrincioides* (Griseb.) Griseb. - *Leuceria conyzoides* D. Don - *L. thrincioides* Griseb. - *Trixis hieracioides* (D. Don) DC. - *T. ochroleuca* Baker - *T. ochroleuca* Baker var. *hieracioides* (D. Don) Kuntze - *T. ochroleuca* Baker f. *pusilla* Hassler - *T ochroleuca* Baker f. *robusta* Hassler - *T. ochroleuca* Baker f. *subintegra* Hassler - *T. ochroleuca* Baker var. *thrincioides* (Griseb.) Kuntze - *T. sonchoides* Chodat - *T. thrincioides* (Griseb.) Hassler
Iconography: Cabrera: 49, fig. 8. 1936 (sub *Trixis hieracioides*).- Cabrera: 8, fig. 2A-E. 1968.- Cabrera: 649, fig. 277. 1978.
Vernacular: "Tabaco del indio".
Habit: Perennial herb.
Flowering period: October-March.
Status: Native.
Distribution: CH (Cmte. Fernández, Presidencia de la Plaza, 1° de Mayo, San Fernando, Tapenaga, 25 de Mayo), CO (Capital), COR (Saladas), FO (Pilagá, Pilcomayo, Pirané), JU (Santa Bárbara), SA (Orán), SE (Capital, Gral. Belgrano, Guasayán, Matará, Robles), SF (Gral. Obligado, San Javier), TU (Leales)
Habitat: Humid soils (OCC, ORI).
Uses: Unknown.
Specimens Examined: CH (Delucchi et al. 1875, LP), CO (Spegazzini s.n., LP), COR (Schinini & Cristóbal 9982, LP), FO (Rojas 8898, LP), JU (Spegazzini s.n., LP), SA (Spegazzini s.n., LP), SE

(Job 2778, LP), SF (Meyer 2952, LP), TU (Venturi 349, LP).

2. **Holocheilus schulzii** (Cabrera) Cabrera
Syn.: *Trixis schulzii* Cabrera
Iconography: Cabrera: 45, fig. 7. 1936.- (sub *Trixis schulzii*).- Cabrera: 13, fig. 4. 1968.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: October-April.
Status: Native.
Distribution: CH (Libertador Gral. San Martín, 1° de Mayo).
Habitat: Margins of shrublands and forests, in fields and flooded grounds (ORI).
Uses: Unknown.
Specimen Examined: CH (Schulz 132, holotype LP).

7. **HYALIS** Hook. & Arn., 1 species.

1. **Hyalis lancifolia** Baker
Syn.: *Hyalis lorentzii* Hieron. - *Plazia acaciifolia* Koster
Iconography: Cabrera: 583, fig. 249G-L. 1978.
Vernacular: "Clavel de las trincheras".
Habit: Subshrub.
Flowering period: October-March.
Status: Native.
Distribution: CH (Gral. Güemes, 1° de Mayo, San Fernando, Tapenaga), FO (Bermejo, Patiño, Matacos), JU (Santa Bárbara), SE (Pellegrini).
Habitat: Clay soils, grassy fields, forests of quebracho colorado (*Schinopsis balansae*), palm savannas of *Copernicia australis* (OCC, ORI).
Uses: Unknown.
Specimens Examined: CH (Schinini 16028, LP), FO (Maruñak et al. 453, LP), JU (Cabrera & Fabris 16233, LP), SE (BAB 91565).

8. **HYALOSERIS** Griseb., 1 species.

1. **Hyaloseris andrade-limae** Cristóbal & Cabrera
Iconography: Cristóbal & Cabrera: 256, fig. 1. 1982.
Vernacular: Unknown.
Habit: Shrub.
Flowering period: Found with flowers in May, November.
Status: Endemic to the Sierra of Guasayán.
Distribution: SE (Guasayán).
Habitat: Low mountain ranges (OCC).
Uses: Unknown.
Specimen Examined: SE (Delucchi 2053, LP).

9. **JUNGIA** Griseb., 1 species.

1. **Jungia polita** Griseb.
Syn.: *Jungia divaricata* Rusby - *J. grossulariifolia* Rusby - *J. polita* Griseb. var. *divaricata* (Rusby) Kuntze - *J. polita* Griseb. var. *glabra* Kuntze - *J. polita* Griseb. var. *tomentosa* Kuntze
Iconography: Cabrera: 635, fig. 270. 1978.- Harling: 69, fig. 25. 1995.
Vernacular: Unknown.
Habit: Shrub.
Flowering period: August-December.
Status: Native.
Uses: Unknown.
Distribution: CO (Minas), JU (San Pedro), LR (Capital, Gral. Belgrano), SA (Metán, Orán).
Habitat: Stony grounds, rocky slopes, scrublands, rocky river banks (OCC).
Uses: Unknown.
Specimens Examined: CO (Sayago 3145, LP), JU (Venturi 9674, LP), LR (Alaríz 27, LP), SA (Cabrera 4219, LP).

10. **MUTISIA** L. f., 1 species, 1 variety.

1. **Mutisia coccinea** St. Hil. var. **dealbata** (Less.) Cabrera
Syn.: *Mutisia dealbata* (Less.) DC. - *M. hayenbeckii* Arechav. - *M. speciosa* Ait. var. *dealbata* Less. - *M. speciosa* Ait. var. *elliptica* Chodat
Iconography: Cabrera: 491, fig. 291. 1974.
Vernacular: Unknown.
Habit: Perennial herb, creeper.
Flowering period: October-March.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando, Sgt. Cabral, Tapenaga), COR (Capital), SF (Vera).
Habitat: Forests, margins of scrublands (ORI).
Uses: Unknown.
Specimens Examined: CH (Rodrigo 2624, LP), COR (Pedersen 1840, LP), SF (Tedone 5077, LP).

11. **TRICHOCLINE** Cass., 2 species.

1. Inner phyllaries gradually longer than the outer ones.....1. *T. reptans*
- Phyllaries all of the same length.....2. *T. sinuata*

1. **Trichocline reptans** (Wedd.) Rob.
Syn.: *Bichenia reptans* Wedd. - *Gerbera incana* (Lam.) Kuntze var. *intermedia* Kuntze - *G. incana* (Lam.) Kuntze var. *reptans* (Wedd.) Kuntze - *G. incana* (Lam.) Kuntze var. *reptans* (Wedd.) Kuntze f. *aurantiaca* Kuntze - *G. incana* (Lam.) Kuntze var. *reptans* (Wedd.) Kuntze f. *pallida* Kuntze
Iconography: Cabrera: 616, fig. 263A-F. 1978.- Zardini: 709, fig. 31-34. 1975.
Vernacular: "Arnica", "contrayerba", "coro", "topsaire plateado ", "yerba china", "y corro", "y. del ciervo", "y. del corro".
Habit: Perennial herb.
Flowering period: November-March.
Status: Native.
Distribution: CA (La Paz), CH (12 de Octubre), CO (Río Seco), SE (Capital, Choya, Gral. Belgrano, Guasayán, Moreno, Ojo de Agua, Quebrachos, Robles, Gral. Taboada), SF (9 de Julio, San Cristóbal).
Habitat: Grassy, loose, sandy, or rocky soils (OCC, SAV).
Uses: Stomach pain, the rhizomes are used to flavour the tobacco, the ashes are used to clean the teeth (Zardini, 1975).
Specimens Examined: CA (Brizuela 274, LP), CH (Birabén 51, LP), CO (Sayago 1856, LP), SE (Cuezzo 2458, LP), SF (Ragonese 3070, LP).

2. **Trichocline sinuata** (D. Don) Cabrera
Syn.: *Bichenia sinuata* D. Don
Iconography: Cabrera: 478, fig. 283A. 1974.- Zardini: 672, fig. 17. 1975.
Vernacular: "Arnica del campo".
Habit: Perennial herb.
Flowering period: November-April.
Status: Native.
Distribution: CO (San Alberto), SF (Vera, San Cristóbal).
Habitat: Rocky, sandy, loose soils (OCC, SAV).
Uses: Unknown.
Specimens Examined: CO (Birabén 49, LP), SF (Ragonese 2999, LP).

12. **TRIXIS** P. Browne, 6 species, 2 varieties.

1. Involucre 1-seriate.....1. *T. cacalioides*
- Involucre 2-3-seriate.....2
2. Corollas and pappus orange-reddish.....4. *T. nobilis*
- Corollas and pappus pale yellow or white.....3
3. Inner phyllaries less than 10.....4
- Inner phyllaries more than 10.....5
4. Inner phyllaries 8-9.....2. *T. divaricata*
- Inner phyllaries 5.....5. *T. pallida*
5. Leaves auriculate at the base.....3. *T. grisebachii*
- Leaves not auriculate at the base.....6. *T. praestans*

1. **Trixis cacalioides** (Kunth) D. Don
Syn.: *Perdicium cacalioides* Kunth - *Trixis frutescens* P. Browne var. *denticulata* Less. - *T. hexantha* S. Moore - *T. neaeana* DC. - *T. papillosa* D. Don -*T. paradoxa* Cass. - *T. subparadoxa* Herrera
Iconography: Cabrera: 643, fig. 274. 1978.- Katinas: 56, fig. 16. 1996.
Vernacular: "Coca inca", "hierba linda", "inga", "yerba linda".
Habit: Shrub.
Flowering period: Throughout the year.
Status: Native.
Distribution: CA (La Paz), CH (Alm. Brown), CO (Capital, Sobremonte, Río Seco), SA (Rosario de la Frontera), SE (Alberdi, Copo, Choya, Figueroa, Guasayán, Matará, Ojo de Agua, Pellegrini, Quebrachos, Robles), TU (Cruz Alta).
Habitat: Dry soils, on rocky slopes, stony grounds, deserts and salty soils (OCC).
Uses: Unknown.
Specimens Examined: CA (Brizuela 1168, LP), CH (Cabrera 2974, LP), (CO (Sayago 254, LP), SA (Cabrera 3126,

LP), SE (Bayón 459, LPAG), TU (Schreiter 3493, LP).

2. **Trixis divaricata** (Kunth) Spreng.

1. Stem branches divaricate, bearing hanging pseudopanicles.....a. ssp. *divaricata*
- Stem branches erect, bearing erect pseudopanicles.....b. ssp. *discolor*

a. **Trixis divaricata** (Kunth) Spreng. ssp. **divaricata**

Syn.: *Castra regia* Vell. - *Perdicium divaricatum* Kunth - *P. flexuosum* Kunth - *Prionanthes antimenorrhoea* Schrank - *Trixis antimenorrhoea* (Schrank) Mart. ex Baker, comb. inval.- *T. antimenorrhoea* (Schrank) Kuntze - *T. antimenorrhoea* (Schrank) Kuntze ssp. *antimenorrhoea* - *T. antimenorrhoea* (Schrank) Kuntze var. *auriculata* (Hook.) Cabrera - *T. antimenorrhoea* (Schrank) Kuntze var. *cladoptera* (Baker) Cabrera - *T. antimenorrhoea* (Schrank) Kuntze var. *divaricata* (Kunth) Kuntze - *T. antimenorrhoea* (Schrank) Kuntze var. *flexuosa* (Kunth) Kuntze - *T. antimenorrhoea* (Schrank) Kuntze var. *petiolata* Kuntze - *T. antimenorrhoea* (Schrank) Kuntze var. *typica* Cabrera, nom. illeg. - *T. auriculata* Hook. - *T. calcarea* Gardner - *T. diffusa* Rusby - *T. divaricata* (Kunth) Spreng. var. *auriculata* (Hook.) DC. - *T. divaricata* (Kunth) Spreng. var. *cladoptera* Baker - *T. divaricata* (Kunth) Spreng. var. *exauriculata* DC. - *T. divaricata* (Kunth) Spreng. var. *exauriculata* DC. f. *subpetiolata* Chodat -*T. divaricata* (Kunth) Spreng. var *odoratissima* (Gardner) Baker - *T. divaricata* (Kunth) Spreng. var. *sprengeliana* (Gardner) Baker - *T. flexuosa* (Kunth) Spreng. - *T. odoratissima* Gardner - *T. salicifolia* D. Don - *T. sprengeliana* Gardner

Iconography: Katinas: 48, fig. 14. 1996.

Vernacular: "Anku chuta", "chucha", "cuñambí", "herva andorinha", "palo de Santa María", "selidonia".

Habit: Shrub.

Flowering period: Throughout the year.

Status: Native.

Distribution: CH (Bermejo, Gral. Güemes, Libertad, 1º de Mayo, San Fernando), CO (Tulumba), COR (Capital, Empedrado, San Cosme), FO (Matacos, Patiño, Pilcomayo, Pirané), JU (Santa Bárbara), SA (Anta, Gral. San Martín), TU (Leales).

Habitat: In open places, on sandy, clay, wet, and alluvial soils (OCC, ORI).

Uses: Anti-inflammatory, mainly during the menstrual cycle (Katinas, 1996).

Specimens Examined: CH (Rojas 11710, LP), CO (Vignati 460, LP), COR (Schinini & Pueyo 4764, LP), FO (P. Arenas 2327, BAB), JU (Cabrera 15795, LP), SA (Toledo 1418, SI), TU (Venturi 377, LP).

b. **T. divaricata** (Kunth) Spreng. ssp. **discolor** (D. Don) Katinas

Syn.: *Trixis antimenorrhoea* (Schrank) Kuntze var. *discolor* (D. Don) Cabrera - *T. antimenorrhoea* (Schrank) Kuntze ssp. *discolor* (D. Don) Katinas - *T. antimenorrhoea* (Schrank) Kuntze var. *flexuosa* (Kunth) Kuntze f. *discolor* (D. Don) Kuntze - *T. antimenorrhoea* (Schrank) Kuntze var. *heterophylla* Kuntze - *T. antimenorrhoea* (Schrank) Kuntze var. *petiolata* Kuntze f. *sublanata* Kuntze - *T. discolor* D. Don - *T. divaricata* (Kunth) Spreng. var. *discolor* (D. Don) Griseb. - *T. divaricata* (Kunth) Spreng. var. *exauriculata* DC. f. *petiolata* Chodat - *T. divaricata* (Kunth) Spreng. var. *glandulifera* Hassl.

Iconography: Katinas: 54, fig. 15. 1996.

Vernacular: "Contrahierba", "contrayerba", "c. de la sierra", "sen silvestre", "siempreverde".

Habit: Shrub.

Flowering period: Throughout the year.

Status: Native.

Distribution: CH (Cmte. Fernández, Independencia, Mayor Fontana, Quitilipi, San Lorenzo), CO (Capital, Colón, Cruz del Eje, Tulumba), FO (Matacos, Patiño), SE (Alberdi, Copo, Ojo de Agua), SF (San Cristóbal).

Habitat: Rocky or sandy soils, on slopes, river banks (OCC, ORI, SAV).

Uses: Diuretic, antirheumatic (Katinas, 1996), against paralysis, diaphoretic (Freire & Urtubey, 1999b).

Specimens Examined: CH (Rodrigo 2469, LP), CO (Novara & Bruno 10497, MCNS), FO (Birabén s.n., LP), SE

(Molina & Hilfer 2891, LP), SF (Krapovickas 733, LP).

3. **Trixis grisebachii** Kuntze
Syn.: *Trixis frutescens* P. Browne var. *cacalioides* Griseb. non D. Don
Iconography: Cabrera: 645, fig. 275. 1978.- Katinas: 65, fig. 20. 1996.
Vernacular: "Tian tian", "tien tien".
Habit: Shrub.
Flowering period: December-August.
Status: Native.
Distribution: SA (Anta), SE (Río Hondo), TU (Burruyacú).
Habitat: In fences and margin of roads, and railroads (OCC).
Uses: Laxative (Katinas, 1996).
Specimens Examined: SA (Toledo & Varela 1418, MCNS, SI), SE (Katinas et al. 97, LP), TU (Peirano s.n., GH).

4. **Trixis nobilis** (Vell.) Katinas
Syn.: *Castra nobilis* Vell. - *Trixis glaberrima* Less. - *T. glabrata* Baker, nom. illeg. - *T. megapotamica* Hook. & Arn. - *T. rosea* Baker, nom. illeg. - *T. stricta* Mart., nom. illeg. - *T. suaveolens* Baker, nom. illeg. - *T. verbasciformis* Less. - *T. verbasciformis* Less. var. *glaberrima* (Less.) Malme - *T. verbasciformis* Less. var. *intermedia* (Less.) Malme
Iconography: Cabrera: 497, fig. 296 1974.- Katinas: 75, fig. 24. 1996.
Vernacular: "Arnica", "á. del campo", "á. gigantesca", "assa-peixe verbasco", "urusú-catí", "yaguareté-caá".
Habit: Subshrub.
Flowering period: November-March.
Status: Native.
Distribution: SF (Vera).
Habitat: Dry soils in open places, stony grounds, fields and prairies, margins of forests and scrublands, modified soils (ORI).
Uses: Tonic, emmenagogue (Freire & Urtubey, 1999b), against stomach pain, antidiarrhoeal (Katinas, 1996).
Specimen Examined: SF (Tedone s.n., LP).

5. **Trixis pallida** Less.
Syn.: *Trixis lorentzii* Arechav. - *T. pallida* Less. var. *australis* Griseb. - *T. pallida* Less. var. *subsericea* Chodat
Iconography: Cabrera: 498, fig. 297. 1974.- Katinas: 82, fig. 27. 1996.
Vernacular: "Contrayerba", "urusú katí".
Habit: Subshrub.
Flowering period: November-April.
Status: Native.
Distribution: CH (Sgt. Cabral), COR (Bella Vista, Capital, Saladas, San Cosme, San Roque), FO (Patiño).
Habitat: Sandy soils, in open places, palm savannas (OCC, ORI).
Uses: Vermifuge (Katinas, 1996), tonic, emmenagogue, vermifuge, etc. (Freire & Urtubey, 1999b).
Specimens Examined: CH (Schulz 1050, LP), COR (Quarín 3515, LP), FO (Fortunato et al. 3410, BAB).

6. **Trixis praestans** (Vell.) Cabrera
Syn.: *Castra praestans* Vel. - *Trixis missionum* Cabrera - *Trixis mollissima* D. Don
Iconography: Cabrera: 494, fig. 293. 1974.- Katinas: 85, fig. 29. 1996.
Vernacular: "Humo bravo", "tabaquillo de monte".
Habit: Shrub.
Flowering period: May-September.
Status: Native.
Distribution: CH (Bermejo, La Libertad, San Fernando), COR (Bella Vista, Capital, Empedrado, San Roque), SF (Gral. Obligado).
Habitat: Modified soils in margins of roads, rocky slopes, river banks, in forests and scrublands (ORI).
Uses: Unknown.
Specimens Examined: CH (Meyer 1600, LP),COR (Schinini et al. 9424, LP), SF (Meyer 2638, GH).

10. Tribe **SENECIONEAE**, 4 genera, 17 species.

1. Style pilose on the upper part of branches. Pappus single.....2
- Style pilose below branches. Pappus double.....2. *Microliabum*
2. Style branches truncate.....3
- Style branches conical.....3. *Pseudogynoxys*
3. Capitula radiate (corolla of marginal florets ligulate), subdiscoid (corolla of marginal florets filiform, very short) or discoid (marginal florets absent) .....4. *Senecio*
- Capitula subdiscoid (corolla of marginal floret filiform, very long).....1. *Erechtites*

1. **ERECHTITES** Raf., 2 species.

1. Leaf blades serrate, sinuate-dentate or lobate. Pappus white.....1. *E. hieracifolia* var. *cacalioides*
- Leaf blades pinnatisected. Pappus pinkish.....2. *E. valerianifolia*

1. **Erechtites hieracifolia** (L.) Raf. var. **cacalioides** (Fisch. ex Spreng.) Griseb.
Syn.: *Senecio cacalioides* Fisch. ex Spreng.
Iconography: Cabrera & Klein: 129, fig. 35. 1975.- Cabrera: 488, fig. 205. 1978.- Cabrera: 432, fig. 253 a-h. 1974.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: November-December, March.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), COR (San Cosme), FO (Pilagás), TU (Famaillá).
Habitat: Moist soils, *Echinodorus* and *Elionorus* fields (ORI), border of reed fields, 500 m (OCC).
Uses: Remedy for tiredness (reported in *Erechtites hieracifolia*, Heinrich, 1996).
Specimens Examined: CH (Schulz 78, LP), COR (Schinini 4587, LP), FO (Rojas 8945, LP), TU (Venturi 312, LP).

2. **Erechtites valerianifolia** (Wolf) DC.
Syn.: *Senecio valerianifolius* Wolf
Iconography: Barkley: 1252, fig. 95. 1975.- Cabrera & Klein: 132, fig. 36. 1975.- Cabrera: 432, fig. 253. 1974.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: November-January.
Status: Native.
Distribution: CH (1° de Mayo, Sgto. Cabral).
Habitat: Weed. Shady and moist places in woods (ORI).
Uses: Forage.
Specimens Examined: CH (Schulz 96, LP).

2. **MICROLIABUM** Cabrera, 1 species

1. **Microliabum candidum** (Griseb.) H. Rob.
Syn.: *Austroliabum candidum* (Griseb.) H Rob. & Brettell - *Liabum auriculatum* Griseb. - *L. candidum* Griseb. - *L. candidum* Griseb. var. *glanduliferum* Cabrera - *L. candidum* Griseb. var. *subcirrhosum* (S. F. Blake) Cabrera - *L. subcirrhosum* S. F. Blake - *Microliabum glanduliferum* (Cabrera) H. Rob.
Iconography: -.
Vernacular: Unknown.
Habit: Perennial herb or subshrub.
Flowering period: January-April.
Status: Native.
Distribution: CO (Capital, Colón, Santa María).
Habitat: Damp grassy places, near reservoirs, dried and sunny places, hills, rocky soils (OCC).
Uses: Ornamental (Parodi, 1988).
Specimen Examined: CO (Cabrera et al. 23808, LP).

3. **PSEUDOGYNOXYS** (Greenm.) Cabrera, 1 species.

1. **Pseudogynoxys benthamii** Cabrera
Syn.: *Pseudogynoxys cabrerae* H. Rob. & Cuatrec. - *Senecio benthamii* Baker, (non Griseb.)
Iconography: Robinson & Cuatrecasas: 192. 1977 (sub nom. *Pseudogynoxys cabrerae* H. Rob. & Cuatrec.).- Cabrera: 487, fig. 204. 1978.
Vernacular: Unknown.
Habit: Scandent shrub.
Flowering period: October, January, May.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), COR (Capital), FO (Formosa, Pilcomayo), JU (Ledesma), SA (Orán), SF (Gral. Obligado).
Habitat: Moist borders in forest (ORI, OCC).
Uses: Ornamental.
Specimens Examined: CH (Schulz 84, LP), FORMOSA (leg?, LP 064574), JU (Fabris 4584, LP), SA (Cabrera et al. 26520, LP), SF (Alonso & Panigatti 495, LP)

4. **SENECIO** L., 13 species, 8 varieties.

1. Florets isomorphic, bisexual, with all tubular corollas (capitula discoid). .....13. *S. vira-vira*

- Florets dimorphic, pistillate florets with ligulate corollas (capitula radiate).....2
2. Leaves with distinct and abruptly delimited petiole or decurrent into stem.....3
- Leaves without distinct and abruptly delimited petiole, sessile or sometimes on narrowly winged petioles.....5
3. Leaves decurrent into stem. Corollas ligulate yellow.....2. *S. deferens*
- Leaves long petioled. Corollas ligulate white.....4
4. Lower leaf blades ovate-deltoid, base cordate or sagittate. Phyllaries glabrous or marginally pubescent.....1. *S. bonariensis*
- Lower leaf blades ovate, base rounded, then narrowed into the petiole. Phyllaries pubescent.....9. *S. paraguariensis*
5. Leaves pinnatisect.....6
- Leaves entire, dentate or lobulate (rarely some leaves pinnatisect).....10
6. Leaf segments linear.....8. *S. pampeanus*
- Leaf segments linear-lanceolate.....7
7. Phyllaries 7-14.....12. *S. sectilis*
- Phyllaries 16-20.....8
8. Herbs. Capitula densely corymbose. Leaves 8-14 x 1-2 mm.....2. *S. brasiliensis*
- Shrubs. Capitula laxly corymbose. Leaves 30-60 x 0.5-1.5 mm.....9
9. Involucre 5-7 mm high.....5. *S. gilliesianus*
- Involucre 8-9 mm high.....10. *S. pinnatus*
10. Plants glandular-pubescent.....11. *S. saltensis*
- Plants glabrous or tomentose.....11
11. Capitula several, corymbose Leaves lanceolate or linear-lanceolate, margins serrate or sub-entire.....12
- Capitula long pedunculate, solitary. Leaves oblanceolate, apically 3-fid or 2-4-dentate, base long attenuate.....3. *S. ceratophylloides*
12. Subshrub 0.15-1 m high. Leaf margins uniformly serrate to sub-entire.....7. *S. hieronymi*
- Perennial herbs 0.50-2 m high. Leaf margins serrate.....6. *S. grisebachii*

1. **Senecio bonariensis** Hook. & Arn.
Syn.: *Senecio ochroleucus* var. *beta* Hook. & Arn. - *S. rhodaster* Baker - *S. sagittifolius* Baker - *S. sagittarioides* Speg.
Iconography: Cabrera: 307, fig. 96. 1963.
Vernacular: "Lampaso", "lampasillo", "lengua de ciervo", "margarita de bañado", "natán nana (k) té", "sanguinaria".
Habit: Perennial herb.
Flowering period: August, September.
Status: Native.
Distribution: CH (1° de Mayo, Bermejo), COR (Mburucuyá).
Habitat: "embalsados" (ORI).
Uses: Cicatrizant, medicinal, etc. (Freire & Urtubey, 2000c).
Specimens Examined: CH (Schulz 88, LP), COR (Cabrera 11764, LP).
Obs.: Toxic for cattle (Freire et al., 2005).

2. **Senecio brasiliensis** (Spreng.) Less.

1. Leaf segments entire, glabrous above and white-tomentose beneath.....var. *brasiliensis*
- Leaf segments serrate.....2
2. Leaf segments laxly tomentose on both surfaces.....var. *incanus*
- Leaf segments sub-glabrous.....var. *tripartitus*

a) var. **brasiliensis**
Syn.: *Cineraria brasiliensis* Spreng.
Iconography: Baker: tab. 88. 1884.
Vernacular: "Primavera", "yerba lanceta", "y. de la primavera".
Habit: Perennial herb.
Flowering period: September.
Status: Native.
Distribution: CH (1° de Mayo).
Habitat: Moist fields (ORI).
Uses: Hepatotoxic, stomachal, sudorific, (Freire & Urtubey, 2000c).
Specimen Examined: CH (Cabrera 18565, LP).

b) var. **incanus** Baker
Iconography: -
Vernacular : Unknown.
Habit: Perennial herb.
Flowering period: September-November.
Status: Native.

Distribution: CH (1° de Mayo).
Habitat: Disturbed places on rocky soils (ORI).
Uses: Unknown.
Specimen Examined: CH (Schulz 119, LP).

c) var. **tripartitus** (DC.) Baker
Syn.: *Senecio amabilis* Vell. - *S. cannabinaefolius* Hook. & Arn. - *S. megapotamicus* H. Buek - *S. tripartitus* DC. (non A. Rich.)
Iconography: Cabrera, fig.22. 1957.- Cabrera: 446, fig. 263. 1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: Unknown.
Status: Native.
Distribution: COR (Esquina), SF (Castellanos).
Habitat: Swamps and stream banks (ORI, OCC, SAV).
Uses: Provitaminic (Amat,1983).
Specimens Examined: COR (Krapovickas et al. 26892, LP), SF (Panigatti & Fosati 356, LP).
Obs.: Toxic for cattle (Freire et al., 2005).

3. **Senecio ceratophylloides** Griseb.
Syn.: *Senecio ceratophyllus* D. Don ex Hook. & Arn. (non Nees) - *S. ceratophyllus* var. *macrodon* (Baker) Malme - *S. ceratophyllus* var. *major* D.Don ex Hook. & Arn. - *S. chilensis* var. *ceratophyllus* (Hook. & Arn.) Baker - *S. chilensis* var. *macrodon* Baker -*S. cuspidatus* var. *ceratophylloides* (Griseb.) Kuntze - *S. cuspidatus* var. *ceratophyllus* (Hook. & Arn.) Kuntze - *S. cuspidatus* var. *macrodon* (Baker) Kuntze
Iconography: Cabrera: 312, fig. 99 C. 1963.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: October, December.
Status: Native.
Distribution: CO (Colón, Santa María, Tulumba).
Habitat: Forest, disturbed soils, 450-3000 m (OCC).
Uses: Unknown.
Specimen Examined: CO (Hunziker 6901, LP).

4. **Senecio deferens** Griseb.
Syn.: *Senecio stenopterus* Griseb.
Iconography: Cabrera: 544, fig. 232. 1978.
Vernacular: "Calzón roto", "peludillo".
Habit: Annual herb.
Flowering period: October, November.
Status: Native.
Distribution. FO (Unknown), SA (Anta), SE (Robles), TU (Chicligasta).
Habitat: Disturbed soils (OCC).
Uses: Unknown.
Specimens Examined: FO (Cordini 59, LP), SA (Pedersen 10735, LP), SE (Maldonado 482, LP), TU (Scolnik 1, LP).

5. **Senecio gilliesianus** Hieron.
Syn.: *Senecio feuillei* Phil. - *S. gilliesianus* var. *glaberrima* Hieron. - *S. gilliesii* Phil. - *S. pinnatus* var. *pectinatus* Baker
Iconography: -
Vernacular: "Yerba del venado"
Habit: Shrub.
Flowering period: July-October.
Status: Native.
Distribution: SE (Loreto, Río Hondo, Ojo de Agua).
Habitat: Woods, along road (OCC)
Uses: Unknown.
Specimens Examined: SE (Cabrera & Fabris 15936, LP).

6. **Senecio grisebachii** Baker

1. Leaves deeply lobulate.....var. *anomalus*
- Leaves entire, dentate or serrate.....2
2. Leaves without stipules.....3
- Leaves with stipules.....4
3. Leaves lanceolate.....var. *grisebachii*
- Leaves rhombic-lanceolate.....var. *balansae*
4. Leaves with entire, linear stipules.....var. *leptotus*
- Leaves with divided stipules, stipule segments linear.....var. *schyzotus*

a) var. **grisebachii**
Iconography: Cabrera: 448, fig. 264 a-e. 1974.
Vernacular: "Primavera".
Habit: Perennial herb.

Flowering period: August, October-November, January-March.
Status: Native.
Distribution: CH (Alm. Brown, Cmte. Fernández, San Fernando, Mayor Fontana), FO (Formosa, Pilcomayo), COR (Bella Vista, Capital, Goya, Saladas, San Cosme), SF (Gral. Obligado, Vera), SE (Figueroa).
Habitat: Open places in forest, disturbed soils, sand banks (OCC, ORI, SAV).
Uses: Unknown.
Specimens Examined: CH (Rodrigo 2463, LP), FO (Marchionni 32, LP), COR (Schinini 5265, LP), SF (Venturi 11676, LP), SE (Molina & Hilfer 2674, BAB).
Obs.: Toxic for cattle (Zardini, 1984).

b) var. **anomalus** Cabrera
Iconography: Cabrera: 316, fig. 100 E. 1963.- Cabrera: 448, fig. 264 f. 1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: Unknown.
Status: Native.
Distribution: COR (Esquina, Mburucuyá), SF (Gral. Obligado).
Habitat: no further data (ORI).
Uses: Unknown.
Specimens Examined: COR (Rodrigo 3319, LP), SF (Hunziker 7503, LP).

c) var. **balansae** Cabrera
Syn.: *Senecio balansae* Baker
Iconography: -
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: September-November.
Status: Native.
Distribution: CH (Gral. Belgrano, 1° de Mayo, 25 de Mayo), FO (Pilagás).
Habitat: Fields, disturbed places (ORI).
Uses: Unknown.
Specimens Examined: CH (Ringuelet 103, LP), FO (Rojas 8891, LP, SI).

d) var. **leptotus** Cabrera
Iconography: Cabrera: 316, fig. 100 A,B. 1963.- Cabrera: 448, fig. 264 g-h. 1974.
Vernacular: "Primavera".
Habit: Perennial herb.
Flowering period: November.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando, Sgt. Cabral), COR (Esquina, Goya), FO (Unknown), SF (Gral. Obligado).
Habitat: Fertile soils, road banks, "quebrachales" (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 118, LP), COR (Boelcke 1484, LP), FO (Jorgensen s.n., SI), SF (Meyer 3245, LP).

e) var. **schyzotus** Cabrera
Iconography: Cabrera: 316, fig. 100 D. 1963.- Cabrera: 448, fig. 264 i. 1974.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: October, November.
Status: Native.
Distribution: CH (1° de Mayo, Mayor Fontana), COR (Mburucuyá), SF (Gral. Obligado).
Habitat: Moist woods, sandy banks, fields in disturbed places (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 232, LP), COR (Cabrera 11608, LP), SF (Maldonado B. 1636, LP).

7. **Senecio hieronymi** Griseb.
Syn.: *Senecio charaguensis* Cuatrec. - *S. tafiensis* Cabrera
Iconography: Cabrera: 553, fig. 237 E-H. 1978.
Vernacular: Unknown.
Habit: Subshrub.
Vernacular: "Amaicha grande".
Flowering period: August, October.
Status: Native.
Distribution: CH ("Gran Chaco"), SA (Orán).
Habitat: Moist places in subtropical forest and sub-dry slopes with shrubby vegetation, 450 m (OCC).
Uses: Unknown.
Specimens Examined: CH (Spegazzini 2392, LP), SA (Rodriguez 9768, LP).

8. **S. pampeanus** Cabrera
Iconography: Cabrera: 299, fig. 92. 1963. - Cabrera: 259, fig. 262. 1971b.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: October, November.
Status: Native.
Distribution: CO (Colón, Río Seco), COR (Mburucuyá), SL (Gral. Pedernera), SF (Gral. Obligado, Vera).
Habitat: Sandy or salty soils (ORI, OCC, SAV).
Uses: Unknown.
Specimens Examined: CO (Hunziker 1153, LP), COR (Pedersen 7094, LP),

SL (Anderson 1379, LP), SF (Venturi 123, LP).

9. **Senecio paraguariensis** Mattf.
Iconography: -
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: Unknown.
Status: Native.
Distribution: CH (Unknown).
Habitat: Swampy places.
Uses: Unknown.
Specimen Examined: CH (Meyer 110, SI).

10. **Senecio pinnatus** Poir. var. **pinnatus**
Syn.: *Cineraria megapotamica* Spreng.
Iconography: Cabrera: 259, fig. 264. 1971b.- Cabrera: 445, fig. 262. 1974.
Vernacular: Unknown.
Habit: Shrub.
Flowering period: June-July, September-November, January.
Status: Native.
Distribution: CH (1° de Mayo, Mayor Fontana, San Fernando), COR (Capital, Goya, San Cosme, San Roque), FO (Unknown), SF (Gral. Obligado, 9 de Julio, San Cristóbal, San Javier-Vera), SE (Banda, Capital, Robles, Silipica), TU (Cruz Alta).
Habitat: Woods, cultivated lands, pastures, disturbed soils, clay soils slightly salty, 400-1800 m (ORI, OCC, SAV).
Uses: Analgesic, snakebites, anticephalalgic (Freire & Urtubey, 2000c).
Specimens Examined: CH (Schulz 121, LP), COR (Schinini & Pueyo 5166, LP), SF (Job 894, LP), FO (not seen), SE (Meyer & Sleumer 15252, LP), TU (Schreiter 2324, LP).

11. **Senecio saltensis** Hook. & Arn.
Iconography: Cabrera: 443, fig. 260. 1974.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: March-April, September-November.
Status: Native.
Distribution: CH (Bermejo), CO (Rio Primero, Rio Seco), COR (Lavalle), SA (Anta), SE (Banda, Copo, Guayacán, Ojo de Agua, Quebrachos, Robles), SF (San Cristóbal, San Javier, San Justo).
Habitat: Disturbed soils (ORI, OCC, SAV).
Uses: Unknown.
Specimens Examined: CH (Jorgensen 2025, SI), CO (Sayago 1794, LP), COR (Schinini et al. 19049, LP), SA (Cabrera 2972, LP), SE (Cabrera 2988, LP), SF (Ragonese 3002, LP).

12. **Senecio sectilis** Griseb.
Iconography: Cabrera, tab. 8. 1939a.
Vernacular: Unknown.
Habit: Shrub.
Flowering period: January.
Status: Native.
Distribution: SE (Robles).
Habitat: Disturbed soils (OCC)
Uses: Unknown.
Specimen Examined: SE (Krapovickas & Cristóbal 27153, LP).

13. **Senecio vira-vira** Hieron.
Syn.: *Senecio albicaulis* var. *glabriusculus* Griseb. - *S. argentinus* Baker - *S. pinnatus* var. *achalensis* Griseb. - *S. sericeus* var. *glabriusculus* (Griseb.) Kuntze - *S. sericeus* var. *pinnatifidus* Kuntze
Iconography: Cabrera: 435, fig. 254. 1974 (sub nom. *S. argentinus* Baker).
Vernacular: "Flor de reina", "vira-vira".
Habit: Subshrub.
Flowering period: August, September.
Status: Native.
Distribution: CO (Rio Primero), FO (Unknown), SE (Ojo de Agua, Avellaneda), SF (9 de Julio, San Cristóbal).
Habitat: Dry places on rocky soils (OCC, SAV).
Uses: Diaforetic, emmenagogue, febrifugal, depurative, cough (Hieronymus, 1882).
Specimens Examined: CO (Sayago 184, LP), FO (not seen), SE (Cabrera et al. 28065, SI), SF (Ragonese 2405, LP).

11. Tribe **VERNONIEAE**, 5 genera, 26 species, 1 subspecies, 2 varieties.

1. Corolla deeply 5-lobed, tubular, actinomorphic. Capitula never aggregated in glomerules protected by bracts 2
- Corolla pseudoligulate (deeply 5-lobed with a deeper split between two inner lobes), zygomorphic. Capitula aggregated in secondary heads sorrounded by foliaceus bracts.....3
2. Cypselas with an apical blunt rim. Pappus of short, scabrid, deciduous bristles. Plants thistle-like.....4. *Pacourina*

- Cypselas not differentiated in a rim. Pappus of short and linear scales, scabrid bristles or both. Plants not thistle-like.....4
3. Pappus of 20-30 bristles not widened at base.....3. *Orthopappus*
- Pappus of 5 bristles widened at base.....2. *Elephantopus*
4. Pappus easily deciduous. Outer phyllaries foliaceous .....1. *Centratherum*
- Pappus persistent. Outer phyllaries not foliaceous.....5. *Vernonia*

1. **CENTRATHERUM** Cass., 2 species, 1 subspecies.

1. Phyllaries acuminate, mucro longer than 1 mm, cypselas 3 mm long or longer .....1. *C. confertum*
- Phyllaries apically rounded, without mucro or with a very short one, cypselas shorter than 3 mm.....2. *C. punctatum* ssp. *punctatum*

1. **Centratherum confertum** K. Kirkman
Syn.: *Centratherum camporum* (Hassl.) Malme var. *albicans* (Hassl.) Malme - *C. punctatum* Cass. ssp. *camporum* Hassl. var. *albicans* Hassl.
Iconography: Cabrera: 280, fig. 6 C, 282, fig. 8 B, tab. I. 1944.- Cabrera: 127, fig. 57. 1974.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: November-February.
Status: Native.
Distribution: COR (Bella Vista), SF (Gral. Obligado).
Habitat: "Campos", little hills, over lateritic or sandy soils (ORI).
Uses: Unknown.
Specimens Examined: COR (Boelcke 1593, LP), SF (Job 980, LP).

2. **Centratherum punctatum** Cass. ssp. **punctatum**
Syn.: *Ampherephis aristata* Kunth in H.B.K. - *A. intermedia* Link - *A. mutica* Kunth in H.B.K. - *A. pilosa* Cass. - *A pulchella* Cass. - *Amphibecis violacea* Schrank - *Baccarodes brachylepis* (Sch. Bip. ex Baker) Kuntze - *Baccarodes holtonii* (Baker) Kuntze - *B. muticum* (Kunth) Kuntze - *B. punctatum* (Cass.) Kuntze - *B. violaceum* (Schrank) Kuntze - *Centratherum aristatum* auct. non Cass. - *C. brachylepis* Sch. Bip. ex Baker in Mart. - *C. brevispinum* Cass. - *C. camporum* (Hassl.) Malme var. *longipes* (Hassl.) Malme - *C. holtonii* Baker in Mart. - *C. intermedium* (Link) Less. - *C. longispinum* Cass. - *C. muticum* (Kunth) Less. - *C. pulchellum* (Cass.) Steud. - *C. punctatum* Cass. ssp. *camporum* Hassl. var. *longipes* Hassl. - *C. punctatum* Cass. ssp. *camporum* Hassl. var. *viscosissimum* Hassl. f. *foliosum* (Chodat) Hassl. - *C. punctatum* Cass. ssp. *camporum* Hassl. var. *viscosissimum* Hassl. f. *brachyphyllum* Hassl. - *C. punctatum* Cass. var. *foliosa* Chodat - *C. punctatum* Cass. var. *parviflorum* Baker in Mart. - *C. violaceum* (Schrank) Gleason - *Crantzia ovata* Vell. - *Spixia violacea* Schrank
Iconography: Cabrera: 295, fig. 18 A-F. 1944.- Aristeguieta 1964: 20, fig. 3. 1964.- Cabrera & Klein: 237, fig. 67 A-D. 1980.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: December-March.
Status: Native.
Uses: Unknown.
Distribution: COR (San Cosme).
Habitat: "Campos", margins of jungles (ORI).
Specimen Examined: COR (Krapovickas & Cristóbal 11595, LP).

2. **ELEPHANTOPUS** L., 1 species.

1. **Elephantopus mollis** Kunth in H.B.K.
Syn.: *Elephantopus cernuus* Vell.- *E. hypomalacus* S. F. Blake - *E. martii* auct. non Graham - *E. pilosus* Philipson - *E. scaber* auct. non L.- *E. scaber* var. *tomentosus* auct. non (L.) Sch. Bip. ex Baker - *E. tomentosus* auct. non L.
Iconography: Cabrera: 278, fig. 5 C, 280, fig. 6 B, 283, fig. 9 B, 367, fig. 30 A-G. 1944.- Aristeguieta: 82, fig. 12. 1964.- Cabrera: 154 fig. 74 a-e. 1974.- Cabrera & Klein: 399, fig. 110 a-g. 1980.- Novara: 21, fig. 5. 1993.- Ariza Espinar: 8, fig. 1. 1994.
Vernacular: "Lengua de vaca", "siilá llálé", "tratané látée" (toba).

Habit: Perennial herb.
Flowering period: December-March.
Status: Native.
Distribution: CH (1° de Mayo, San Fernando), COR (Capital, Saladas, San Luis del Palmar), SF (Gral. Obligado).
Habitat: In high sandy soils, near rivers (ORI).
Uses: Medicinal, astringent, ulcers (Freire & Urtubey, 2000a).
Specimens Examined: CH (Schulz 172, BAB, LP), COR (Krapovickas & Cristóbal 11787, LP), SF (Covas & Ragonese 7379, LP).

3. **ORTHOPAPPUS** Gleason, 1 species.

1. **Orthopappus angustifolius** (Sw.) Gleason
Syn.: *Elephantopus angustifolius* Sw.
Iconography: Cabrera: 283, fig. 9 A, :365, fig. 29 A-G. 1944.- Cabrera: 152, fig. 73 a-f. 1974.- Cabrera: 53, fig. 18 A-D. 1978.- Cabrera & Klein: 396, fig. 109 A-G. 1980.- Novara: 19, fig. 4. 1993.
Vernacular: "Lengua de vaca".
Habit: Perennial herb.
Flowering period: December, March.
Status: Native.
Distribution: CH (Fray Luis Santa María de Oro, Gral. Güemes, Mayor Fontana, 1° de Mayo, San Fernando, Sgt. Cabral), COR (Capital, Empedrado, Lavalle), FO (Formosa, Patiño, Pilagás, Pirané), SF (Gral. Obligado, Vera).
Habitat: High and sandy soils in borders of jungles. Weed in rice crops (ORI, SAB).
Uses: Astringent, expectorant (Freire & Urtubey, 1999b).
Specimens Examined: CH (Schulz 13692, BAB), COR (Hunziker 5454, SI), FO (Krapovickas 905, LP), SF (Job 792, LP).

4. **PACOURINA** Aubl., 1 species.

1. **Pacourina edulis** Aubl.
Iconography: Cabrera: 280, fig. 6 A, 282, fig. 8 A, 292, fig. 17 A-F. 1944.- Aristeguieta: 18, fig. 2. 1964.
Vernacular: "Pacurina".
Habit: Perennial herb.
Flowering period: December-March.
Status: Native.
Distribution: CH (Bermejo, 1° de Mayo), FO (Formosa, Laishi, Pilcomayo).
Habitat: In coastal forests (gallery or marginal forests), over sandy and wet soils (ORI).
Uses: Immature capitula edible (Cristóbal & Dematteis, 2003).
Specimens Examined: CH (Schinini 27546, BAB), FO (Krapovickas 1016, LP, SI).

5. **VERNONIA** Schreb., 21 species (1 endemic) and 2 varieties.

1. Capitula cylindrical, 4-10 florets, usually 6.....2
- Capitula hemispherical, campanulate or turbinate, with more than 10 florets.....3
2. Phyllaries lanceolate, apiculate, reflexed.....10. *V.megapotamica*
- Phyllaries oblong-lanceolate, obtuse or subacute, tightly arranged.....8. *V. hexantha*
3. Capitulum solitary. Stems leafy .....2. *V. brevifolia*
- Capitula solitary over scapeform stems or in different types of inflorescences.....4
4. Capitula solitary or few (2-6) over scapeform stems.....20. *V. sellowii*
- Capitula generally numerous, not over scapeform stems.....5
5. Capitula terminally and axillary arranged in a raceme of glomerules.....3. *V. chamaedrys*
- Capitula in cincinnus or corymbs.....6
6. Bracts of the capitulescence equal or almost equal to leaves.....7
- Bracts of the capitulescence reduced or absent.....10
7. Leaf blades lanceolate or linear, length/width more than 5.....16. *V. rubricaulis*
- Leaves ovate-lanceolate or elliptic, length/width less than 4.....8
8. Phyllaries oblong, obtuse.....17. *V. saltensis*
- Phyllaries lanceolate, acute.....9
9. Involucre 4-4,5 mm high. Subshrubs.....14. *V. parodii*
- Involucre 6-8 mm high. Herbs.....15. *V. remotiflora* var. *remotiflora*
10. Capitula numerous in long cincinnus, sessile or almost sessile.....11
- Capitula in short cincinnus, at least few pedunculate or aggregated in panicles of corymbs.....14
11. Phyllaries obtuse, with wide membranaceous margins.....6. *V. echioides*

- Phyllaries acute, without membranaceous margins....12
12. High clambering shrubs. Cypselas laxly pubescent....19. *V. scorpioides*
- Perennial herbs with xylopodium. Cypselas sericeous-pubescent....13
13. Capitula 10-23 flowered....5. *V. cognata*
- Capitula ca. 50 flowered....7. *V. flexuosa* var. *flexuosa*
14. Capitula in short cincinnus with branches divided to one side, aggregated in wide corymbs or panicles....15
- Capitula in panicles of corymbiform cymes, with branches alternatively divided to both sides....17
15. Leaves blades obovate, more than 3 cm wide, auriculate at base....1. *V. brasiliana*
- Leaf blades lanceolate, less than 3 cm wide, attenuate at base....16
16. Shrubs. Leaves grey-yellowish tomentose beneath. Involucre 5-6 mm high. Phyllaries lanceolate, glabrous o slightly pubescent....21. *V. tweediana*
- Rhizomatous herbs. Leaves silvery tomentose beneath. Involucre 4-5 mm high. Phyllaries ovate-lanceolate, lanuginous....9. *V. incana*
17. Shrubs or tall subshrubs. Stems branched, 1-2.5 m tall. Involucre turbinate. Florets 8-14. Leaves glabrous on both surfaces....12. *V. nitidula*
- Perennial herbs or low subshrubs, with xylopodium. Stems simple or little branched. Involucre hemispherical or campanuate. Florets generally more....18
18. Leaf blades linear, narrow, 1-1.5 mm wide....13. *V. nudiflora*
- Leaf blades lanceolate or oblong, 5 mm wide or more....19
19. Leaf blades glabrous beneath. Phyllaries obtuse....18. *V. schulziana*
- Leaf blades tomentose abaxially. Phyllaries acute....20
20. Capitula more than 30-flowered. Involucre hemispherical. Capitulescence lax, with few capitula....11. *V. mollissima*
- Capitula ca. 15-flowered. Involucre campanulate. Capitulescence dense, with many capitula....4. *V. chaquensis*

1. **Vernonia brasiliana** (L.) Druce
Syn.: *Baccharis brasiliana* L. - *Venonanthura brasiliana* (L.) H. Rob. - *Vernonia assans* Mart. ex DC. - *V. odoratissima* Kunth in H.B.K. - *V. salvifolia* Wight - *V. scabra* Pers.
Iconography: Baker: tab. 21. 1873.- Aristeguieta: 48, fig. 6. 1964.
Vernacular: Unknown.
Habit: Shrub or small tree.
Flowering period: July-December.
Status: Native.
Distribution: FO (Pilcomayo).
Habitat: "Campos", jungles, disturbed and low grounds (ORI).
Uses: Unknown.
Specimen Examined: FO (Morel 3273, LP).

2. **Vernonia brevifolia** Less.
Syn.: *Cacalia brevifolia* (Less.) Kuntze - *Lessingianthus brevifolius* (Less.) H. Rob. - *Vernonia brevifolia* Less. var. *ericifolia* Baker in Mart. - *V. brevifolia* Less. var. *squarrosifoliata* Hieron. - *V. ericifolia* Hook. & Arn. - *V. linosyrifolia* Chodat
Iconography: Baker: tab. 14. 1873.- Cabrera: tab. 3. 1944.- Cabrera: 132, fig. 59 a-h. 1974.- Cabrera & Klein: 370, fig. 102 A-D. 1980.- Matzenbacher & Mafioleti: 109, fig. 28 A-E. 1994.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: October-February.
Status: Native.
Distribution: COR (Capital, San Cosme).
Habitat: "Campos", dunes (ORI).
Uses: Unknown.
Specimens Examined: COR (Hunziker et al. 11070, LP, SI).

3. **Vernonia chamaedrys** Less.
Syn.: *Cacalia chamaedrys* (Less.) Kuntze - *Vernonanthura chamaedrys* (Less.) H. Rob. - *Vernonia ilex* Chodat
Iconography: Cabrera: 310, fig. 21 A, tab. 6. 1944.- Cabrera: 136, fig. 62 a-f. 1974.- Cabrera & Klein: 361, fig. 99 F-H. 1980.- Matzenbacher & Mafioleti: 108, fig. 27 A-D. 1994.
Vernacular: "Escoba dura", "e. grande", "katéc lashi", "keyók l'(o) biná""pichana", "pugno", "tihpihehá morotí", "tĩpĩshâ guasú", "t. rapó",.
Habit: Subshrub.
Flowering period: December-February.
Status: Native.
Distribution: CH (Alm. Brown, Cmte. Fernández, 1º de Mayo, San Fernando,

Sgt. Cabral), COR (Capital, Empedrado, Esquina, Saladas, San Cosme), FO (Patiño, Pilcomayo, Pirané), SF (Gral. Obligado, Vera).
Habitat: Forests, savannas over fertile soils (OCC, ORI).
Uses: To make brooms, medicinal, to shorten menstrual cycle (Freire & Urtubey, 1999b).
Specimens Examined: CH (Simonetti 28, BAB), COR (Hunziker 5326 ,LP), FO (Petetin & Molina 1396, BAB), SF, Venturi 114, SI).

4. **Vernonia chaquensis** Cabrera
Syn.: *Vernonanthura chaquensis* (Cabrera) H. Rob.
Iconography: Cabrera: 359, fig. 27 A-H. 1944.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: January- March.
Status: Native.
Distribution: CH (Mayor Fontana, 1° de Mayo, San Fernando), COR (Capital, Bella Vista, Empedrado, Saladas), FO (Patiño, Pilcomayo).
Habitat: In low, wet lands, marshes (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 6454, SI), COR. (Pedersen 3699, LP), FO (Krapovickas 911, LP, SI).

5. Vernonia cognata Less.
Syn.: *Cacalia cognata* (Less.) Kuntze - *Vernonia cognata* var. *sceptrum* (Chodat) Cabrera - *V. propinqua* Hieron. - *V. sceptrum* Chodat - *V. senecionea* Mart. ex DC.
Iconography: Cabrera (sub nom. *Vernonia cognata* var. *sceptrum*): 333, fig. 23 D, tab. 22. 1944.- Cabrera: 142, fig. 66 a-f. 1974.- Cabrera & Klein: 340, fig. 94 A-B. 1980.- Matzenbacher & Mafioleti: 102, fig. 21. 1994.
Vernacular: "Ha´log", "sorace".
Flowering period: January-March.
Status: Native.
Distribution: CH (General Donovan, Mayor Fontana, 1° de Mayo, San Fernando), COR (Capital, Empedrado, Goya, San Roque), FO (Patiño, Pilcomayo), SF (Gral. Obligado).
Habitat: Over high and fertile soils (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 13335, SI), COR (Pedersen 6433, LP), FO (Rojas 8994, (LP, SI).

6. **Vernonia echioides** Less.
Syn.: *Eupatorium arechavaletae* Baker - *Vernonia lingua* Chodat - *V. oreophila* Speg. - *V. spegazzinii* Hicken
Iconography: Cabrera: 333, fig. 23 C, tab. 21. 1944.- Cabrera: 140, fig. 65 B-F. 1974.- Cabrera & Klein: 336, fig. 93 C-E. 1980.- Matzenbacher & Mafioleti: 101, fig. 20. 1994.
Vernacular: Unknown.
Habit: Perennial herb or subshrub.
Flowering period: November-March.
Status: Native.
Distribution: CH (Bermejo, 1° de Mayo), FO (Formosa, Pilcomayo).
Habitat: In low lands and marshes (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 263, LP), FO (Rojas 8996, LP, SI).

7. **Vernonia flexuosa** Sims var. **flexuosa**
Syn.: *Cacalia flexuosa* Kuntze - *Chrysolaena flexuosa* (Sims) H. Rob. - *Vernonia montevidensis* Nees ex Otto & Dietr.
Iconography: Cabrera: 143, fig. 67 a-f. 1974.
Vernacular: "Quiebra arado", "yerba del sudor".
Habit: Subshrub.
Flowering period: November-March.
Status: Native.
Distribution: CH (12 de Octubre, Gral. Belgrano, Mayor Fontana, 9 de Julio, 1° de Mayo, San Fernando, 25 de Mayo), COR (Empedrado, San Luis del Palmar), FO (Pilagás), SF (Gral. Obligado, 9 de Julio, Vera).
Habitat: Fertile soils (OCC, ORI, SAB).
Uses: Sudorific (González et al., 1939).
Specimens Examined: CH (Schulz 897, SI), COR (Quarín et al. 2314, LP), FO (Rojas 8920, SI), SF (Job 783, LP).

8. **Vernonia hexantha** Sch. Bip. ex Baker in Mart.
Syn.: *Cacalia hexantha* (Sch. Bip.) Kuntze - *Stenocephalum hexanthum* Sch. Bip. - *Vernonia megapotamica* Spreng. var. *hexantha* (Sch. Bip.) Cabrera
Iconography: Baker: tab. 9. 1873.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: January-March.
Status: Native.
Distribution: COR (Capital, Empedrado), SF (Gral. Obligado, San Javier).
Habitat: "Campos" (ORI).
Uses: Unknown.
Specimens Examined: COR (Pedersen 10244, LP), SF (Ragonese 2696, LP).

9. **Vernonia incana** Less.
Syn.: *Cacalia incana* (Less.) Kuntze - *Vernonia inmunis* Griseb.
Iconography: Cabrera: 345, fig. 25 A, tab. 28. 1944.- Cabrera: 148, fig. 70 a-g. 1974.- Cabrera: 41, fig. 11 A-D. 1978.- Novara: 13, tab. 2 D-E. 1993.- Matzenbacher & Mafioleti: 99, fig. 18 A-D. 1994.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: December-March.
Status: Native.
Distribution: CH (Cmte. Fernández, 1º de Mayo, 25 de Mayo), COR (Capital, Empedrado, Esquina, Goya, San Cosme), FO (Formosa , Patiño, Pilagás, Pilcomayo), SF (Castellanos, Gral. Obligado, San Cristóbal, San Justo, Vera), SE (Banda, Pellegrini), TU (Leales).
Habitat: Low and wet lands. Near ponds, lagoons, marshes of tall grasses. Weed in crops of rice (OCC, ORI, SAB).
Uses: Melliferous (Cristóbal & Dematteis, 2003).
Specimens Examined: CH (Molina & Sánchez 2384, BAB), COR (Pedersen 9613, LP), FO (Rojas 8915, LP, SI), SF (Ragonese 2674, LP), SE (Venturi 5778 SI), TU (Venturi 689, SI).

10. **Vernonia megapotamica** Spreng.
Syn.: *Stenocephalum megapotamicum* (Spreng.) Sch. Bip. - *Vernonia megapotamica* var. *argentina* Hieron.
Iconography: Cabrera: 305, fig. 20 A, tab. 2. 1944.- Cabrera: 130, fig. 58 a-g. 1974.- Cabrera & Klein: 274, fig. 77 A-D. 1980.- Matzenbacher & Mafioleti: 82, fig. 1 A-E. 1994.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: December-March.
Status: Native.
Distribution: COR (Bella Vista, Capital, Empedrado, San Cosme, San Roque), SF (Gral. Obligado, San Javier).
Habitat: "Campos" (ORI).
Uses: Unknown.
Specimens Examined: COR (Quarín 3518 SI), SF (Job 1005, LP).

11. **Venonia mollissima** D. Don ex Hook. & Arn.
Syn.: *Cacalia mollissima* (D. Don ex Hook. & Arn.) Kuntze - *Lessingianthus mollissimus* (D. Don ex Hook. & Arn.) H. Rob. - *Vernonia mollissima* D. Don ex Hook. & Arn. var. *microcephala* Hieron.
Iconography: Cabrera: 352, fig. 2 B, fig. 26 C, tab. 34. 1944.- Cabrera: 27, fig. 3 A. 1963.- Cabrera: 151, fig. 72 a-e. 1974.- Matzenbacher & Mafioleti: 117, fig. 36 A-C. 1994.
Vernacular: Unknown.
Habit: Subshrub.
Status: Native.
Flowering period: October-March.
Distribution: CO (Capital, Colón, Tulumba), SF (San Javier).
Habitat: "Campos" (OCC, ORI).
Uses: Sudorific, diaphoretic (Freire & Urtubey, 1999b).
Specimens Examined: CO (Luti 4809, LP), SF (Burkart 5735, LP, SI).

12. **Vernonia nitidula** Less.
Syn.: *Baccharis montevidensis* Spreng. - *Cacalia montevidensis* (Spreng.) Kuntze - *Piptocarpha nitidula* (Less.) Griseb. - *Vernonanthura montevidensis* (Spreng.) H. Rob., p.p. - *Vernonia arechavaletae* André - *V. gochnatioides* Hook. & Arn. - *V. nitidula* Less. var. *acutifolia* Griseb.
Iconography: Cabrera: 345, fig. 25 B, tab. 29. 1944.- Cabrera: 150, fig. 71 a-g. 1974.- Cabrera & Klein: 387, fig. 106 A-C. 1980.
Vernacular: "Chilca".
Habit: Shrub.
Flowering period: August-March.
Status: Native.
Distribution: CH (Bermejo, 9 de Julio, 1º de Mayo, San Fernando), COR (San Luis del Palmar, Empedrado), FO (Pilcomayo), SF (Gral. Obligado).
Habitat: Fertile soils within and margins of forests (ORI).
Uses: Melliferous (Cristóbal & Dematteis, 2003).
Specimens Examined: CH (Schulz 10666, BAB, SI), COR (Pedersen 5092, LP), FO (Schinini et al. 31336, BAB), SF (Pensiero 1597, SI).

13. **Vernonia nudiflora** Less.
Syn.: *Cacalia nudiflora* (Less.) Kuntze - *Vernonanthura nudiflora* (Less.) H. Rob. - *Vernonia angustifolia* D. Don ex Hook. - *V. salicifolia* Griseb.
Iconography: Cabrera: 345, fig. 25 E, tab. 32. 1944.- Cabrera & Klein: 383, fig. 105 A-D. 1980.- Ariza Espinar: 12, fig. 2 A-E. 1994.- Matzenbacher & Mafioleti : 114, fig. 33 A-D. 1994.
Vernacular: Unknown.

Habit: Subshrub or shrub.
Flowering period: September-June.
Status: Native.
Distribution: CO (Capital, Colón, Río Seco).
Habitat: Rocky and sandy grounds (OCC)
Uses: Unknown.
Specimen Examined: CO (Maldonado 1020, LP).

14. **Vernonia parodii** Cabrera
Iconography: Cabrera: 188, fig. A-E. 1941b.- Cabrera: tab. 17. 1944.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: December-February.
Status: Native.
Distribution: CH (Chacabuco, Cmte. Fernández, Mayor Fontana,San Lorenzo), COR (Capital), FO (Formosa, Patiño, Pirané).
Habitat: Margins of wood over high and fertile soils (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 932, SI), COR (Pire 3, LP), FO (Fortunato 3335, BAB).

15. **Vernonia remotiflora** Rich. var. **remotiflora**
Syn.: *Lepidaploa remotiflora* (Rich.) H. Rob. - *Vernonia hirtiflora* Sch. Bip ex Baker - *V. lithospermoides* Baker - *V. sessiliflora* Willd. ex Less. - *V. setososquamosa* Hieron. p. p. - *V. tricholepis* Griseb.
Iconography: Cabrera: 322, fig. 22 F. 1944.- Cabrera: 39, fig. 10 A-E. 1978.
Vernacular: Unknown.
Habit: Annual herb.
Flowering period: October-May.
Status: Native.
Distribution: COR (Itatí), FO (Formosa, Pilcomayo)
Habitat: "Campos", weed in cotton crops (ORI).
Uses: Unknown.
Specimens Examined: COR (Pedersen 6931, LP), FO (Piccinici & Petetin 3607, BAB).

16. **Vernonia rubricaulis** Humb. & Bonpl.
Syn.: *Cacalia rubricaulis* (Humb. & Bonpl.) Kuntze - *Lessingianthus rubricaulis* (Humb. & Bonpl.) H. Rob. - *Vernonia chromolepis* Gardner - *V. linearis* D. Don ex Hook. & Arn. - *V. salicifolia* Gillies ex Hook. & Arn.
Iconography: Cabrera: 282, fig. 8 D. 1944.- Cabrera: 140, fig. 65 A. 1974.- Cristóbal & Dematteis: 54, fig. 2 A-B. 2002.
Vernacular: "Quiebra arado".
Habit: Subshrub.
Flowering period: December, March.
Status: Native.
Distribution: CH (Alm. Brown, Bermejo, Libertador Gral. San Martín, 1° de Mayo, San Fernando, Tapenagá), COR (Capital, Empedrado, Goya, Itatí, Lavalle, Saladas, San Luis del Palmar), FO (Laishi, Matacos, Patiño, Pilcomayo), SF (Gral. Obligado, 9 de Julio, San Javier, San Justo, Vera), SE (Banda, Capital, Gral. Taboada, Brig. Ibarra, Moreno).
Habitat: Savannas, "aibales", forests of palm-trees. In marshes and low soils (OCC, ORI, SAB).
Uses: Unknown.
Specimens Examined: CH (Ragonese & Castiglioni 8422, BAB), COR (Krapovickas & Cristóbal 11765, LP), FO (Burkart 20219, SI), SF (Job 893, LP), SE (Elisetch 328, BAB).
Obs.: Toxic for cattle (Freire et al., 2005).

17. **Vernonia saltensis** Hieron.
Syn.: *Lessingianthus saltensis* (Hieron.) H. Rob.
Iconography: Cabrera: 322, fig. 22 B, tab. 16. 1944.- Cabrera: 37, fig. 9 F-J. 1978.- Novara: 11, tab. 1 D-E. 1993.
Vernacular: Unknown.
Habit: Subshrub.
Flowering period: February-March.
Status: Native.
Distribution: JU (Santa Bárbara), SA (Anta, San Martín), SE (Guasayán).
Habitat: Humid and deciduous forests between 340-1300 m (OCC).
Uses: Unknown.
Specimens Examined: JU (Cabrera et al. 23637, LP), SA (Aguilar 300, SI), SE (Krapovickas et al. 37413, BAB, SI).

18. **Vernonia schulziana** Cabrera
Syn.: *Vernonanthura schulziana* (Cabrera) H. Rob.
Iconography: Cabrera: 362, fig. 28 A-G. 1944.
Vernacular: Unknown.
Habit: Perennial herb or subshrub.
Flowering period: December-March.
Status: Endemic.
Distribution: CH (1° de Mayo).
Habitat: High and low fertile soils (ORI).
Uses: Unknown.

Specimen Examined: CH (Schulz 3757, holotype, LP).

19. **Vernonia scorpioides** (Lam.) Pers.
Syn.: *Cacalia scorpioides* (Lam.) Kuntze - *Chrysocoma repanda* Vell.. - *Conyza scorpioides* Lam. - *Cyrtocymura scorpioides* (Lam.) H. Rob. - *Lepidaploa scorpioides* (Lam.) Cass. - *Vernonia arborescens* var. *corrientensis* Hieron. - *V. centriflora* Link & Otto - *Vernonia flavescens* Less. - *V. lanuginosa* Gardner - *V. longeracemosa* Mart. ex DC. - *V. scorpioides* var *sororia* (DC.) Baker - *V. sororia* DC. - *V. subrepanda* Pers.- *V. turnefortioides* Kunth
Iconography: Cabrera: 333, fig. 23 H, tab. 25. 1944.- Cabrera: 147, fig. 69 a-g. 1974.- Cabrera & Klein: 356, fig. 98 A-C. 1980.
Vernacular: "Hierba de San Simón".
Habit: Clambering shrub.
Flowering period: October-March.
Status: Native.
Distribution: CH (Bermejo, 1º de Mayo, San Fernando), COR (Capital, San Cosme), FO (Laishi, Matacos, Pilcomayo, Pirané), SF (Gral. Obligado).
Habitat: Within and margins of coastal forests (also known as gallery or marginal forests) (OCC, ORI).
Uses: Medicinal (Kalesnik & Málverez, 1996), hemorrhoids, dysentery (Jankowski et al., 2000).
Specimens Examined: CH (Schulz 62, LP, SI), COR (Burkart 6924, SI), FO (Cabral & Molina 1025, BAB), SF (Venturi 317, SI).

20. **Vernonia sellowii** Less.
Syn.: *Cacalia sellowii* (Less.) Kuntze - *Lessingianthus sellowii* (Less.) H. Rob. -*Vernonia hassleriana* Chodat
Iconography: Cabrera: 305, fig. 20 D, tab. 5. 1944.- Cabrera: 134, fig. 61 a-f. 1974.- Cabrera & Klein: 374, fig. 103 A-D. 1980.- Matzenbacher & Mafioleti: 110, fig. 29 A-D. 1994.
Vernacular: Unknown.
Habit: Perennial herb.
Flowering period: December-March.
Status: Native.
Distribution: CH (1º de Mayo, San Fernando), FO (without loc.), COR (Capital, Empedrado), SF (Gral. Obligado).
Habitat: High, fertile and sandy soils, usually stony (ORI).
Uses: Unknown.
Specimens Examined: CH (Schulz 127, LP), FO (Jörgensen 2922, SI), COR (Pedersen 5076, LP), SF (Venturi 117, SI).

21. **Vernonia tweediana** Baker
Syn.: *Chrysocoma arborea* Vell. - *Vernonanthura tweediana* (Baker) H. Rob.
Iconography: Cabrera: 269, fig. 1 A, 333, fig. 23 I, tab. 27. 1944.- Cabrera & Klein: 325, fig. 90 A-C. 1980.- Matzenbacher & Mafioleti: 98, fig. 17 A-D. 1994.
Vernacular: "Matacampo".
Habit: Shrub.
Flowering period: December-May.
Status: Native.
Distribution: FO (Formosa, Pilagás, Pilcomayo).
Habitat: Low lands and coastal forests (gallery and marginal forests), disturbed soils. It is a weed in plantations of tea and yerba mate (ORI).
Uses: Unknown.
Specimen Examined: FO (Fortunato 6297, BAB).

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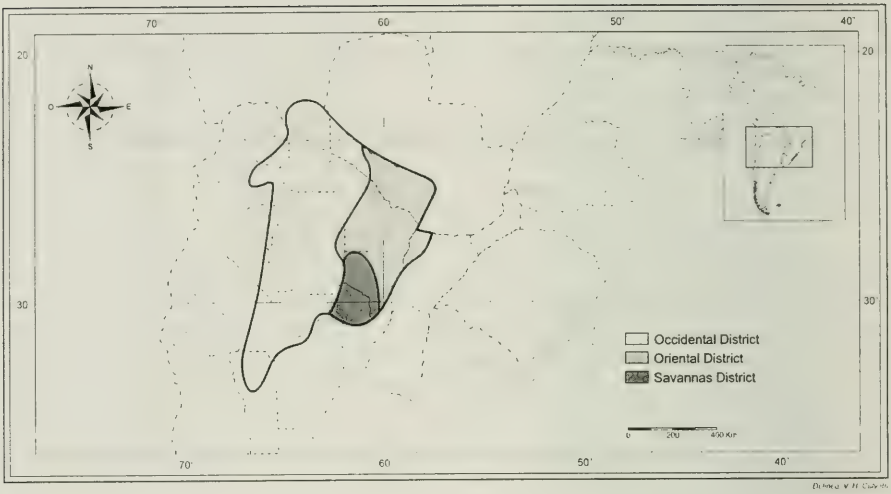

Fig. 1. Biogeographical districts of the Argentinian Chacoan plain.

Fig. 2. **Corollas of the Argentinian Chacoan plain species**: **Anthemideae**: 1. *Anthemis cotula*: 1a. Tubular 5-lobed with distinct short tube (central floret); 1b. Ligulate 3-lobed (marginal floret); 2. *Cotula australis*: Tubular 3-lobed (central floret); 3. *Plagiocheilus tanacetoides*: Bilabiate with short tube (marginal floret); 4. *Soliva macrocephala*: Tubular 4-lobed (central floret).-- **Astereae**: 5. *Conyza bonariensis* : 5a.Tubular distinctly divided into tube and limb (central floret), 5b. Filiform (marginal floret); 6. *Grindelia pulchella*: Ligulate 3-lobed (marginal floret), 7. *Podocoma hieracifolia*: Short-ligulate (marginal floret).--**Cardueae**: 8. *Carduus thoermeri*. Pseudobilabiate, with one lobe separated by deeper splits, 9. *Centaurea solstitialis*: Pseudoligulate (marginal floret); 10. *Cirsium vulgare*: Tubular deeply 5-lobed --**Eupatorieae**: 11. *Eupatorium inulifolium*: Tubular with narrowly to broadly campanulate limb; 12. *Mikania micrantha*: Tubular with distinct basal tube and campanulate limb.-- **Helenieae**: 13. *Flaveria bidentis*: Ligulate 2-lobed (marginal floret); 14. *Helenium donianum*: Ligulate 3-lobed (marginal floret); 15. *Porophyllum ruderale*: Tubular-filiform, funnel-shaped, 5-lobed; 16. *Schkuhria pinnata*: Ligulate 3-lobed (marginal floret).-- **Heliantheae**: 17. *Aspilia montevidensis* var. *setosa*: Ligulate 2-lobed (marginal floret); 18. *Galinsoga parviflora*: Ligulate 3-lobed (marginal floret); 19. *Isostigma peucedanifolium*: Tubular with short tube and expanding 4-lobed limb (central floret); 20.*Thelesperma megapotamicum*: Tubular with a narrow tube and expanding 5-lobed limb.-- **Inuleae**: 21. *Achyrocline satureioides*: 21a. Tubular-filiform (central floret), 21b. Filiform (marginal floret).-- **Lactuceae**: 22. *Picrosia longifolia*: Ligulate 5-lobed.-- **Mutisieae**: 23. *Barnadesia odorata*: 23a. Ligulate deeply 5-lobed (central floret), 23b. Pseudobilabiate with a 4-lobed limb and a single adaxial lobe (marginal floret); 24. *Chaptalia integerrima* (marginal florets): 24a. Pseudobilabiate, 24b. Ligulate 3-lobed; 25. *Dinoseris salicifolia*: Ligulate 5-lobed; 26. *Gochnatia argentina*: Tubular, deeply 5-lobed; 27. *Holocheilus hieracioides*: Bilabiate.-- **Senecioneae**: 28. *Erechtites hieracifolia* var. *cacalioides*: Filiform (marginal floret); 29. *Senecio pinnatus* : 29a. Tubular 5-lobed (central floret); 29b. Ligulate 3-lobed (marginal floret).-- **Vernonieae**: 30. *Elephantopus mollis*: Pseudoligulate; 31. *Vernonia chamaedrys*: Tubular deeply 5-lobed.

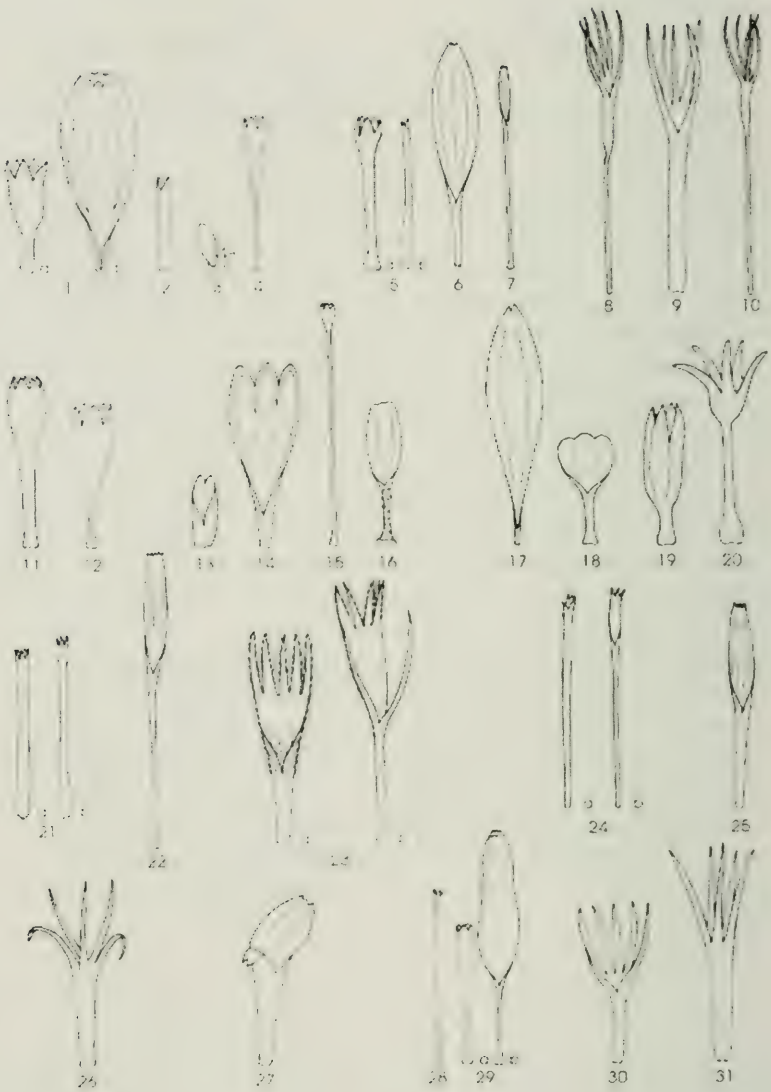
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Fig. 3. **Pappus of the Argentinian Chacoan plain species: Astereae**: 1. *Grindelia pulchella*: Denticulate stout scale; 2. *Hysterionica villosa*: Pappus double, outer row of short scales, inner row of scabrid bristles; 3. *Podocoma notobellidiastrum*: Scabrid bristle.-- **Cardueae**: 4. *Carduus thoermeri*: Scabrid bristle; 5. *Centaurea solstitialis*: Pappus double, outer row of short subulate scales, inner row longer; 6. *Cirsium vulgare*: Plumose bristle.-- **Eupatorieae**: 7. *Eupatorium patens*: Scabrid bristle; 8. *Stevia breviaristata*: Crown of free scales of the idiocarp; 9. *Stevia entreriensis*: Bristle-like awn.-- **Heleniеae**: 10. *Gaillardia megapotamica* var. *radiata*: Thin scale with midrib excurrent as an awn; 11. *Hymenoxys anthemoides*: Thin scale obscurely nerved, 12. *Tagetes minuta*: Scales unequal in length.-- **Heliantheae**: 13. *Aspilia montevidensis*: Crown of united scales and awn; 14. *Bidens pilosa*: Barbed stout awn; 15. *Calea cymosa*: Scale; 16. *Galinsoga parviflora*: Scale with fimbriate margins; 17. *Melanthera latifolia*: Denticulate bristle; 18. *Verbesina subcordata*: Denticulate stout scale; 19. *Viguiera guaranitica*: Crown of united scales and two scale-like awns.-- **Inuleae**: 20. *Berroa gnaphalioides*: Plumose bristle; 21. *Gamochaeta coarctata*: Pappus of basal connate bristles; 22. *Pterocaulon lorentzii*: Scabrid bristle.-- **Lactuceae**: 23. *Hypochaeris microcephala*: Plumose bristle; 24. *Taraxacum officinale*: Scabrid bristle.-- **Mutisieae**: 25. *Barnadesia odorata*: Bristle-like scale recurved at maturity (central floret); 26. *Gochnatia argentina*: Scabrid bristle; 27. *Mutisia coccinea* var. *dealbata*: Plumose bristle.-- **Senecioneae**: 28. *Senecio pinnatus*: Scabrid bristle.-- **Vernonieae**: 29. *Elephantopus mollis*: Bristle basally widened; 30. *Orthopappus angustifolius*: Entire bristle; 31. *Vernonia rubricaulis*: Pappus double, outer row of scales, inner row of scabrid bristles.

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